



# **MODEL W1709 20" WIDE BELT SANDER**



# **INSTRUCTION MANUAL**

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**Printed in Taiwan**

# WARNING

Some dust created by power sanding, sawing, grinding, drilling, and other construction activities contains chemicals known to the State of California to cause cancer, birth defects or other reproductive harm. Some examples of these chemicals are:

- Lead from lead-based paints.
- Crystalline silica from bricks, cement, and other masonry products.
- Arsenic and chromium from chemically treated lumber.

Your risk from these exposures varies, depending on how often you do this type of work. To reduce your exposure to these chemicals: work in a well ventilated area, and work with approved safety equipment, such as those dust masks that are specially designed to filter out microscopic particles.

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# INTRODUCTION

## About Your New Sander

Your new **SHOP FOX®** Sander has been specially designed to provide many years of trouble-free service. Close attention to detail, ruggedly built parts and a rigid quality control program assure safe and reliable operation.

This compact wide-belt sander has digital controls and readout for setting your sanding depth automatically. You can easily and very accurately sand flat boards up to 20" wide resulting in a very smooth and flat finish. Your sander has independent motor controls, an emergency safety shut off bar, a built-in air regulator and filter, an emergency disc brake and a motorized table elevation control. Other great features that you will enjoy is the adjustable photo-electric belt oscillation system, the sanding load meter, and a quick-change belt system with automatic belt tensioning.

Woodstock International, Inc. is committed to customer satisfaction in providing this manual. It is our intent to make sure all the information necessary for safety, ease of assembly, practical use and durability of this product be included.

If you need the latest edition of this manual, you can download it from <http://www.shopfox.biz>.

If you still have questions after reading the latest manual, or if you have comments please contact us at:

**Woodstock International, Inc.**  
**Attn: Technical Support Department**  
**P.O. Box 2309**  
**Bellingham, WA 98227**

## Woodstock Service and Support

We stand behind our machines! In the event that a defect is found, parts are missing or questions arise about your machine, please contact Woodstock International Service and Support at 1-360-734-3482 or send e-mail to: [tech-support@shopfox.biz](mailto:tech-support@shopfox.biz). Our knowledgeable staff will help you troubleshoot problems, send out parts or arrange warranty returns.

# Warranty and Returns

Woodstock International, Inc. warrants all **SHOP FOX®** machinery to be free of defects from workmanship and materials for a period of 2 years from the date of original purchase by the original owner. This warranty does not apply to defects due directly or indirectly to misuse, abuse, negligence or accidents, lack of maintenance, or to repairs or alterations made or specifically authorized by anyone other than Woodstock International, Inc.

Woodstock International, Inc. will repair or replace, at its expense and at its option, the **SHOP FOX®** machine or machine part which in normal use has proven to be defective, provided that the original owner returns the product prepaid to the **SHOP FOX®** factory service center or authorized repair facility designated by our Bellingham, WA office, with proof of their purchase of the product within 2 years, and provides Woodstock International, Inc. reasonable opportunity to verify the alleged defect through inspection. If it is determined there is no defect, or that the defect resulted from causes not within the scope of Woodstock International Inc.'s warranty, then the original owner must bear the cost of storing and returning the product.

This is Woodstock International, Inc.'s sole written warranty and any and all warranties that may be implied by law, including any merchantability or fitness, for any particular purpose, are hereby limited to the duration of this written warranty. We do not warrant that **SHOP FOX®** machinery complies with the provisions of any law or acts. In no event shall Woodstock International, Inc.'s liability under this warranty exceed the purchase price paid for the product, and any legal actions brought against Woodstock International, Inc. shall be tried in the State of Washington, County of Whatcom. We shall in no event be liable for death, injuries to persons or property or for incidental, contingent, special or consequential damages arising from the use of our products.

Every effort has been made to ensure that all **SHOP FOX®** machinery meets high quality and durability standards. We reserve the right to change specifications at any time because of our commitment to continuously improve the quality of our products.

## Specifications

|  |   |
|--|---|
| Sanding Motor .....                              | 7 <sup>1</sup> / <sub>2</sub> HP, 40 Amp, 220V, Single-Phase                  |
| Sanding Motor Speed .....                        | 1,725 RPM   |
| Feed Motor .....                                 | 1 <sup>1</sup> / <sub>2</sub> HP, 3.8 Amp, 220V, Single-Phase                 |
| Feed Motor Speed .....                           | 1,725 RPM   |
| Elevation Motor .....                            | 1 <sup>1</sup> / <sub>3</sub> HP, 3Amp, 220V, Single-Phase                    |
| Elevation Motor Speed .....                      | 1,725 RPM   |
| Drum Speed.....                                  | 3,550 FPM   |
| Drum Diameter .....                              | 7 <sup>13</sup> / <sub>16</sub> "   |
| Feed Rates .....                                 | 16.4, 23, and 32.8 FPM  |
| Sanding Belt Size .....                          | 20 <sup>1</sup> / <sub>2</sub> " x 48"  |
| Total Amps (All motors under maximum load) ..... | 47 Amps   |
| Maximum Sanding Width .....                      | 20"   |
| Maximum Sanding Thickness .....                  | 6"  |
| Minimum Stock Length .....                       | 9"  |
| Minimum Stock Thickness .....                    | 1 <sup>1</sup> / <sub>8</sub> "   |
| Footprint .....                                  | 31 <sup>1</sup> / <sub>4</sub> " wide x 16 <sup>1</sup> / <sub>2</sub> " deep |
| Height (With dust port installed) .....          | 60 <sup>1</sup> / <sub>4</sub> "  |
| Operating Air Pressure .....                     | 57 PSI  |
| Dust Port .....                                  | 4"  |
| Machine Weight .....                             | 961 lbs   |

# SAFETY FIRST!

**READ MANUAL BEFORE OPERATING MACHINE.  
FAILURE TO FOLLOW INSTRUCTIONS BELOW WILL  
RESULT IN PERSONAL INJURY.**



Indicates an imminently hazardous situation which, if not avoided, **WILL** result in death or serious injury.



Indicates a potentially hazardous situation which, if not avoided, **COULD** result in death or serious injury.



Indicates a potentially hazardous situation which, if not avoided, **MAY** result in minor or moderate injury, **MAY** result in property damage.

## NOTICE

This symbol is used to alert the user to useful information about proper operation of the equipment.

## Standard Safety Instructions

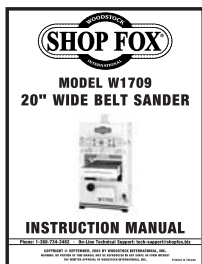
1. **Thoroughly read the instruction manual before operating your machine.** Learn the applications, limitations and potential hazards of this machine. Keep manual in a safe, convenient place for future reference. Make sure any other operators have read and understand the manual as well.
2. **Keep work area clean and well lighted.** Clutter and inadequate lighting invite potential hazards.
3. **Ground all tools.** If a machine is equipped with a three-prong plug, it must be plugged into a three-hole grounded electrical outlet or grounded extension cord. If using an adapter to aid in accommodating a two-hole receptacle, ground using a screw to a known ground.
4. **Wear eye protection at all times.** Use safety glasses with side shields or safety goggles that meet the national safety standards, while operating this machine.
5. **Avoid dangerous environments.** Do not operate this machine in wet or open flame environments. Airborne dust particles could cause an explosion and severe fire hazard.
6. **Ensure all guards are securely in place** and in working condition.
7. **Make sure switch is in the "OFF" position** before connecting power to machine.
8. **Keep work area clean, free of clutter, grease, etc.**
9. **Keep children and visitors away.** Visitors should be kept at a safe distance away while operating unit.
10. **Childproof workshop** with padlocks, master switches or by removing starter keys.
11. **Disconnect machine when cleaning, adjusting or servicing.**

12. **Do not force the machine.** The machine will do a safer and better job if it does the work.
13. **Use the correct tool.** Do not force the tool or attachment to do a job for which it was not designed.
14. **Wear proper apparel.** Do not wear loose clothing, gloves, jewelry, keep long hair tied up, etc.
15. **Remove adjusting keys and wrenches.** Before turning the machine on, make a habit of checking that all adjusting keys and wrenches have been removed before turning the machine *ON*.
16. **DO NOT use extension cord.** Due to the high-amperage draw of this industrial machine, we do not recommend using an extension cord. If you use an extension cord with an undersized gauge or one that is too long, excessive heat will be generated within the circuit increasing the chance of a fire or damage to the circuit.
17. **Keep stable footing and balance** at all times.
18. **Do not leave machine unattended.** Wait until it comes to a complete stop before leaving the area.
19. **Perform machine maintenance and care.** Follow lubrication and accessory attachment instructions in the manual.
20. **Keep machine away from open flame.** Operating machines near pilot lights and/or open flames creates a high risk if dust is dispersed in the area. Dust particles and an ignition source may cause an explosion. Do not operate the machine in high-risk areas, including but not limited to, those mentioned above.
21. **If at any time you are experiencing** difficulties performing the intended operation, stop using the machine! Then contact our Service Department or ask a qualified expert how the operation should be performed.
22. **Habits—good and bad—are hard to break.** Develop good habits in your shop and safety will become second-nature to you.





# Additional Safety Instructions for Sanders



## **! WARNING**

READ and understand this entire instruction manual before using this machine. Serious personal injury may occur if safety and operational information is not understood and followed. **DO NOT** risk your safety by not reading!

## **! CAUTION**

USE this and other machinery with caution and respect, and always consider safety first, as it applies to your individual working conditions. Remember, no list of safety guidelines can be complete, and every shop environment is different. Failure to follow guidelines can result in serious personal injury, damage to equipment and/or poor work results.

1. **Always wear a dust mask.** Sanding operations create large amounts of fine dust. Some types of dust may cause allergic reactions or respiratory problems. In addition to wearing a dust mask, always use a dust collector and overhead air filter for maximum protection.
2. **Do not allow your fingers to get pinched between the board and the conveyor belt during feeding.** The grip of the conveyor belt may pull the operator's hand into the machine and cause serious injury or death. Similarly, do not place hands near the sanding belts during operation.
3. **Know the limits of the sander.** Do not sand stock thinner than  $\frac{1}{8}$ " or shorter than 10".
4. **Never perform sanding operations with the access doors open.**
5. **Always inspect stock for staples, nails, dirt or other foreign objects before sanding.** These items may cause damage to your sander or may even be thrown at a high rate of speed from the sander at the operator.
6. **Never allow anyone to stand directly in front or behind the path of the stock as it is being fed through the sander.** The stock may be ejected at a high rate of speed and could cause serious injury to the operator or bystanders.
7. **Treat your sander with respect.** Do not force stock into the sander during operation or overload the sanding drums beyond reasonable limits. Also, only sand natural wood fiber through your sander. Other materials may damage your machine and open the possibility for operator injury. Keep the internal components clean and lubricated to ensure that the sander can perform the way it was intended.
8. **Never operate the sander without a working dust collection system.** The sander is designed to properly do its job only when wood dust is being evacuated. The buildup of too much wood dust in the internal components will cause performance problems and may increase the likelihood of operator injury.
9. **Wear the proper clothing during all operation and adjustments.** Loose clothing or long hair creates the potential for operator injury because they can easily be caught in the moving parts of the machine. Roll up loose sleeves, tie back long hair and take any other necessary steps to reduce this hazard.



# Avoiding Potential Injuries



**Figure 1.** Correct body and hand positioning.



**Figure 2.** DO NOT operate without safety glasses/respirator!



**Figure 3.** DO NOT stand behind workpiece!



**Figure 4.** DO NOT operate with side door open!



**Figure 5.** DO NOT allow hand to get pinched in belt!

# Electrical Requirements

## 220V Operation

The SHOP FOX® Model W1709 has a 7½ HP, 220V single-phase sanding motor, a ½ HP, 220V feed motor, and a ⅓ HP table lift motor.

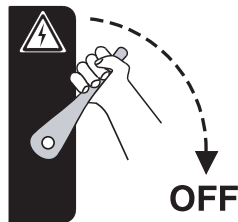
Use a 50 amp circuit breaker and a circuit that has wiring rated to handle this amperage draw. Keep in mind that a circuit being used by other machines or tools at the same time will add to the total load being applied. Add up the load ratings of all machines on the circuit. If this number exceeds the rating of the circuit breaker or wiring, use a different circuit.

## Extension Cords

DO NOT use an extension cord for 220V high amperage industrial shop machines. We recommend following all local electrical codes and using a direct hard wired power supply that is protected by a circuit breaker and is equipped with a kill switch lever that can be locked in the **OFF** position.


## Grounding

This machine must be grounded! Hardwire this machine into a power supply circuit that contains a ground circuit. If you have any questions about correct electrical installation, contact a qualified electrician for assistance to make sure all connections are safe and adhere to your local electrical codes.



**⚠ WARNING**

TURN-OFF and LOCK your master power switch so no power is available to the sander before connecting electrical wires! If you ignore this warning serious electrical shock may occur causing injury or death!



**⚠ WARNING**

Any electrical outlet and circuit that you plug your machine into must be grounded. Never remove the grounding pin from any plug, and always make sure all wiring to the machine is grounded before operating. Serious injury may occur if this warning is ignored!

**⚠ CAUTION**

DO NOT replace the circuit breaker with one rated at a higher amperage or damage to the circuit may occur.

# ASSEMBLY


## Unpacking

The Model W1709 has been carefully packaged for safe transporting. If you notice the machine has been damaged, please contact Woodstock International Service and Support at 1-360-734-3482 or send e-mail to: [tech-support@shopfox.biz](mailto:tech-support@shopfox.biz).

## Box Contents


The following is a description of the components shipped with the **SHOP FOX®** W1709. Lay the components out in a similar fashion to those in **Figure 6**. This will help in identification before beginning assembly. Should any part be missing, examine the packaging carefully. If any parts are missing, find the part number in the back of this manual and call Woodstock International, Inc. at 360-734-3482 or e-mail: [tech-support@shopfox.biz](mailto:tech-support@shopfox.biz).

| Item   | Qty. |
|--|------|
| Combination Wrench 8 x 10mm .....                  | (1)  |
| Combination Wrench 12 x 14mm .....                 | (1)  |
| Combination Wrench 17 x 10mm .....                 | (1)  |
| Phillips Screwdriver .....                         | (1)  |
| Standard Screwdriver .....                         | (1)  |
| Hex Wrench Set (10-Piece 1.5-10mm) .....           | (1)  |
| Square-Key Door Handle .....                       | (2)  |
| Sanding Belt .....                                 | (2)  |
| 4-Amp Fuse Bag (Located Inside of Power Box) ..... | (2)  |
| Sander (Not Shown) .....                           | (1)  |
| Tool Box (Not Shown) .....                         | (1)  |
| Dust Port (Not Shown) .....                        | (1)  |
| Dust Port Adapter (Not Shown) .....                | (1)  |
| Ceramic Wear Rods (Not Shown) .....                | (2)  |



**!WARNING**

READ and understand this entire instruction manual before performing any operations with your machine. Personal injury may occur if safety and operational information is not understood and followed.



**!WARNING**

The Model W1709 is a heavy machine at 1,870 lbs. Use power or hydraulic equipment to avoid serious personal injury or death.



**Figure 6.** Parts shipped with the sander.

## Shop Preparation

- **Floor Load and Balance:** Your sander represents a large weight load in a small footprint. Most commercial floors are suitable for the sander. Some residential floors may require additional bracing to support both machine and operator. Make sure the sander operates on a level surface by placing a level gauge on the conveyor table and using a wrench to adjust the feet until the machine is level.
- **Working Clearances:** Consider existing and anticipated needs, size of material to be processed through each machine, and space for auxiliary stands, work tables or other machinery when establishing a location for your sander.
- **Lighting and Outlets:** Lighting should be bright enough to eliminate shadows and prevent eye strain. Electrical circuits should be dedicated or large enough to handle amperage requirements. Outlets should be located near each machine so any power or extension cords are clear of high-traffic areas. Observe local electrical codes for proper installation of new lighting, outlets, or circuits.



### **! CAUTION**

**MAKE SURE** that all entrances to your shop are locked or that machines are equipped with safety lock-out devices to protect curious children or visitors from serious injury. Never allow unsupervised people in your shop who have not been fully trained!

## Cleaning Machine

The upper roller of the Model W1709 is coated with a waxy grease that protects it from corrosion during shipment. **This coating must be removed before using your sander.**

Clean this grease off with a solvent cleaner or citrus-based degreaser. Do not use chlorine-based solvents—if you happen to splash some onto a painted surface, you will ruin the finish.



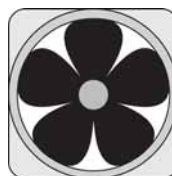
### **! WARNING**

**NEVER** use flammables such as gas or other petroleum-based solvents to clean your machine. These products have low flash points and present the risk of explosion and severe personal injury!



### **! WARNING**

**NEVER** smoke when using solvents. Smoking may cause explosion or risk of fire when exposed to these products!



### **! CAUTION**

**WORK** in a well ventilated area when using solvents, and keep away from any potential ignition sources (pilot lights). Most solvents used to clean machinery are toxic when inhaled or ingested. When using these products, Always dispose of any waste rags in a sealed container to make sure they do not cause fire or environmental hazards.

## Air Hose Installation

Push your air supply hose on to the air pressure regulator inlet fitting, and clamp it in place with a hose clamp as shown in **Figure 7**. If you prefer, you can replace the included air nozzle with a  $\frac{3}{8}$ " male quick connect air coupling.

When the air hose is installed, pull up and rotate the regulator air pressure knob until the gauge reads 57 PSI then push down. **DO NOT** attempt to regulate the air pressure with the ON/OFF air supply lever. This control only shuts off air pressure to the machine.

### NOTICE

To achieve maximum life of the air system o-rings, gaskets, and components, keep the air pressure shut off when not using the sander, and **DO NOT** exceed 75 PSI.



**Figure 7.** Air hose attached to regulator.

## Sanding Belt Installation

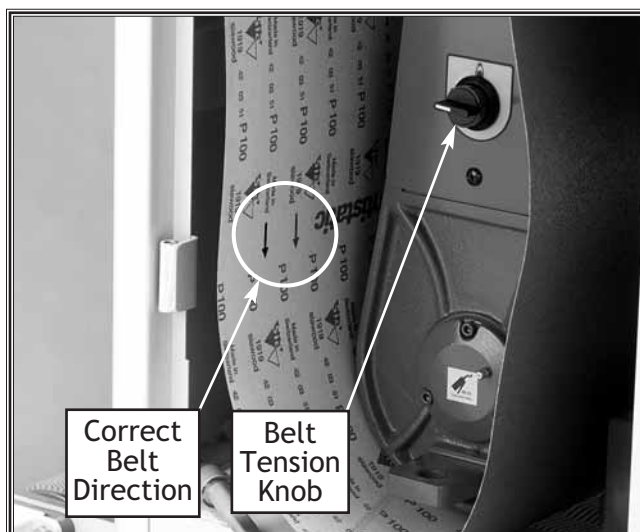
Before installing belt, clean the protective grease from the upper metal sanding belt roller as per the "Cleaning Machine" instructions.

To install the sanding belt, do these steps:

1. **TURN-OFF** and **LOCK** your master power switch, but keep the air pressure going into the machine.
2. Turn and remove the lever and support spacer. See **Figure 8**.
3. Install the sanding belt with the arrows pointing in the direction of drum rotation and center the belt on the rollers. See **Figure 9**.
4. Reinstall the support spacer and lever.
5. Turn the belt tension knob to the 12:00 position and the belt will automatically tighten to the correct tension. At 9:00 the belt will have no tension.



**Figure 8.** Lever removal/installation.



**Figure 9.** Installing sanding belt.

### NOTICE

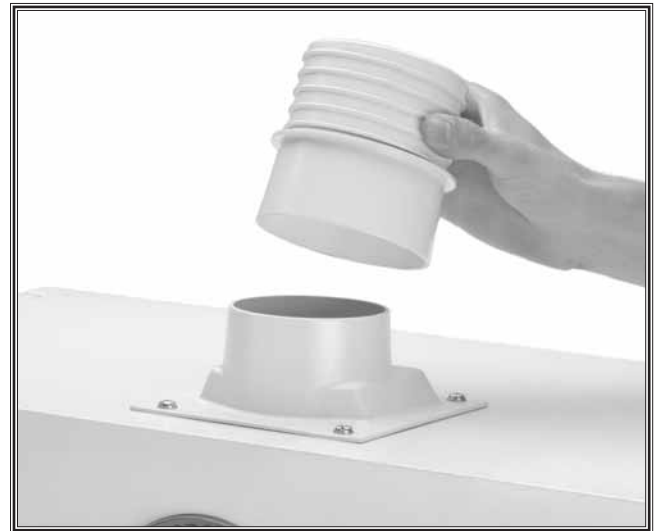
**TENSION** the sanding belt before starting the sander, and **DE-TENSION** the belt when sander is not in use, or you will damage the belt.



## Dust Collection

The Model W1709 features a dust port and an adapter located on top of the machine as shown in **Figures 10** and **11**. Before performing any sanding operation, attach the dust port to a 2HP or better dust collector, which can draw at least 1,200 CFMs, or dust buildup will hinder the performance of your sander.


Even with a sufficient dust collection system, a fine layer of dust may still be present on your stock as it comes out of the sander. This residual dust is a normal condition.




**Figure 10.** Dust collection adapters.



**Figure 11.** Dust collection hose attached to dust port.

|  |   |
|--|---|
|  | <p><b>! CAUTION</b></p> <p>DO NOT operate this machine without an adequate dust collection system. This machine creates substantial amounts of wood dust while in operation. Failure to use a dust collection system can result in short and long-term respiratory illness.</p> |
|--|---|

|   |  |
|---|--|
|  | <p><b>! CAUTION</b></p> <p>ALWAYS wear your respirator in addition to using a dust collector. This machine produces sawdust that may cause allergic reactions or respiratory problems.</p> |
|---|--|

# ADJUSTMENTS

## General Information

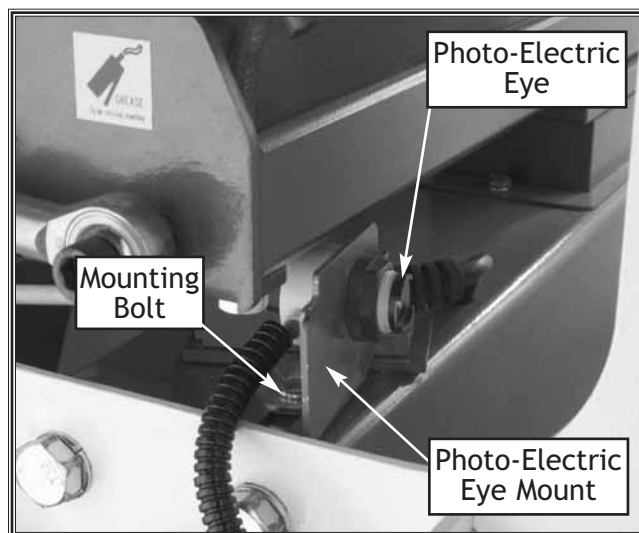
The adjustments in this section have been factory set and generally do not need to be performed when you first receive your sander. However, before operating your sander become familiar with these adjustments, as they will help you achieve the sanding results you want.

## Photo-Electric Eye

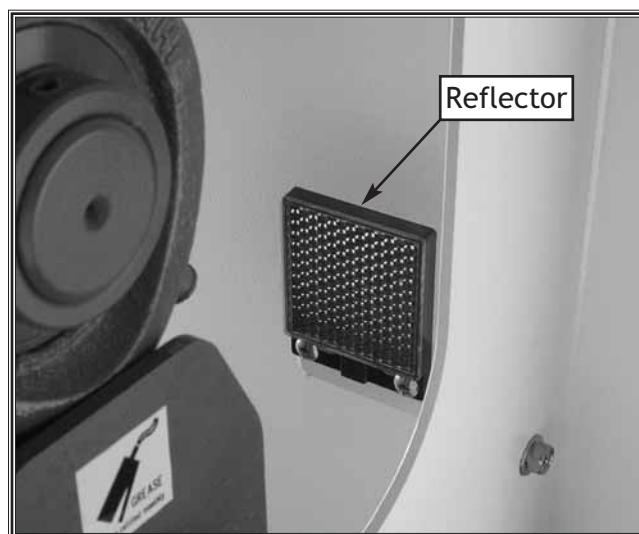
The photo-electric eye senses when the belt oscillates to the right and blocks the beam to and from the reflector. See **Figures 12 and 13**. As soon as the sanding belt obstructs the beam, a piston changes the direction of belt movement to the left. Should the adjustment of the photo-electric eye become skewed, you can readjust the eye.

To adjust the photo-electric eye, do these steps:

1. **TURN-OFF and LOCK the master power switch so no power can go to your sander, but keep the air pressure going into the machine.**
2. Make sure the air regulator is adjusted so that system air pressure is 57 PSI.
3. Open both upper access doors on the sander.
4. Loosen the sanding belt tension and slide the belt so the belt is positioned in the middle of the rollers.
5. Apply power to the sander and push the emergency stop button in so the sander cannot start.
6. Loosen the photo-electric eye mounting bolt. See **Figure 12**.
7. Position the mount so the photo-electric-eye beam is barely obstructed by the edge of the belt, pointing at the reflector, and you hear the electric solenoid click and the piston pushes the pushrod outward. See **Figures 12 and 13**.
8. Tighten the mounting bolt.
9. Start the sander, and check for correct belt positioning and oscillation.
10. Repeat **steps 1 through 9** until the photo-electric eye positioning is correct.



**Figure 12.** Photo-electric-eye assembly.



**Figure 13.** Photo-electric-eye reflector.



# Belt Tracking

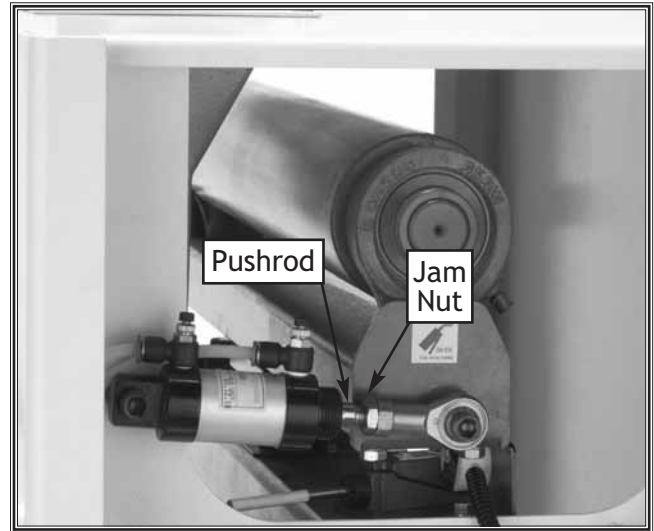
The belt tracking is adjusted by lengthening or shortening an air cylinder pushrod (**Figure 14**). This adjustment is responsible for keeping the belt in “same-speed” left-to-right motion during sanding. Your goal is to adjust the pushrod length until the belt left-and-right movement takes approximately the same amount of time.

## ⚠ CAUTION

KEEP your hands clear of the sanding belt when making these adjustments!

To adjust the belt tracking, do these steps:

1. Make sure the air flow is set to 57 PSI at the regulator.
2. Put on safety glasses, tie back all loose clothing, remove jewelry, pull back sleeves, and tie back long hair so it will not get caught by the sanding belt.
3. Turn the sander **ON**.
4. Observe the left-to-right motion of the belt as it moves along the drum while looking from the front of the sander.
  - If the belt tracks faster to the right, but is slow to track back to the left, loosen the jam nut and rotate the pushrod to lengthen the rod until the tracking is correct. See **Figure 14**.
  - If the belt tracks faster to the left, but is slow to track back to the right, loosen the jam nut and rotate the pushrod to shorten the rod until the tracking is correct. See **Figure 14**.
5. Make sure the belt tracks left and right at approximately the same speed.
6. Keep the sander running, and now complete the **Belt Oscillation Speed** adjustment as outlined on **page 15**.



**Figure 14.** Belt tracking adjustment location.

# Belt Oscillation Speed

For normal operations, the oscillation speed should be set so that it takes approximately one second to move each direction of travel, or a total of two seconds to move both directions.

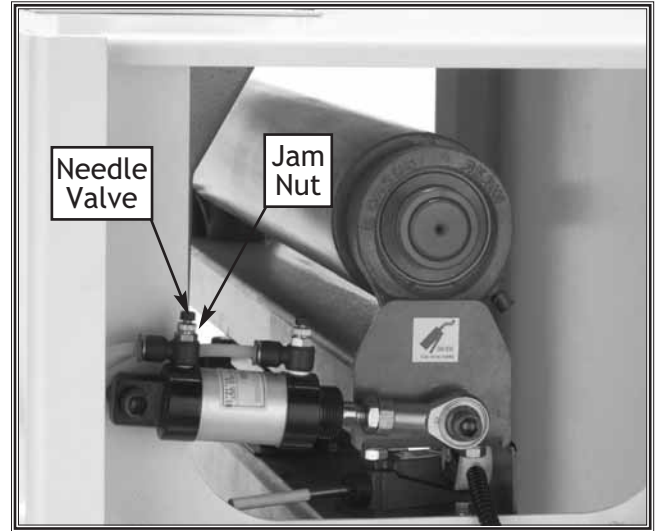
However, you can experiment with different speeds to see how the results may affect your finished product. Often, you may find that certain speeds yield better results for different varieties of stock and the feed rates chosen.

## ! CAUTION

**KEEP your hands clear of the sanding belt when making these adjustments!**

To set the belt oscillation speed, do these steps:

1. Complete the **Sanding Belt Tracking** adjustment on **page 14**.
2. Put on safety glasses, tie back all loose clothing, remove jewelry, pull back sleeves, and tie back long hair so it will not get caught by the sanding belt.
3. If you have not already done so, turn the sander **ON**.
4. Looking from the front of the sander, observe the left-to-right motion of the belt as it moves along the drum while.
5. Loosen the needle valve jam nuts. See **Figure 15**.
6. With your fingertips, turn both needle valves counter-clockwise to increase the oscillations, or turn clockwise to decrease oscillations.
7. When the belt oscillation is at the rate you need, hold the needle valve, and with your fingertips tighten the needle valve jam nuts.
8. Observe belt tracking and oscillation, and complete the **Sanding Belt Tracking** adjustment on **page 14** if tracking is slightly out of adjustment.



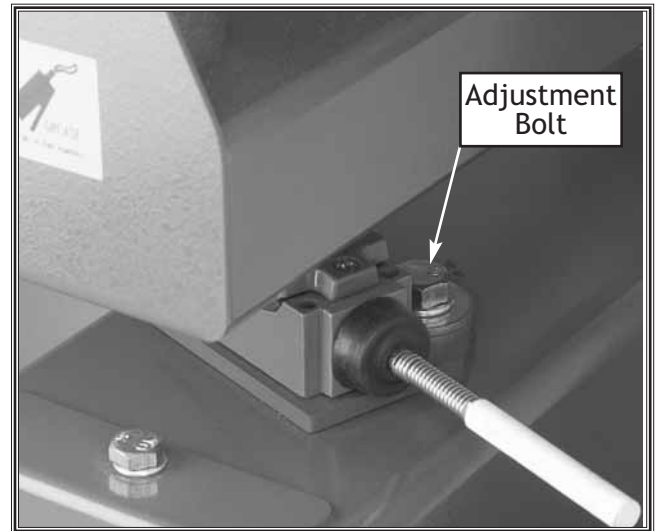
**Figure 15.** Belt oscillation adjustment.

# Belt Tracking Safety Switch

Belt tracking safety switches are placed on both sides of the belt to act as emergency machine stops if the belt travels too far to one side during oscillation. See **Figure 16**.

To adjust the belt tracking safety switches, do these steps:

1. **TURN-OFF** and **LOCK** the master power switch so no power can go to your sander!
2. Make sure the belt tracking and oscillation is adjusted.
3. Release the belt tension, center the sanding belt on the top roller, then re-tension the belt.
4. Measure the distance from the edge of the sanding belt to the ceramic rod protruding from the switch.
5. Loosen the adjustment bolt shown in **Figure 16** and move the switch so the belt and the ceramic rod have approximately  $\frac{1}{2}$ " clearance from each other.
6. Tighten the bolt and repeat the adjustment with the other side if necessary.
7. Start the sander and make sure it is working properly.



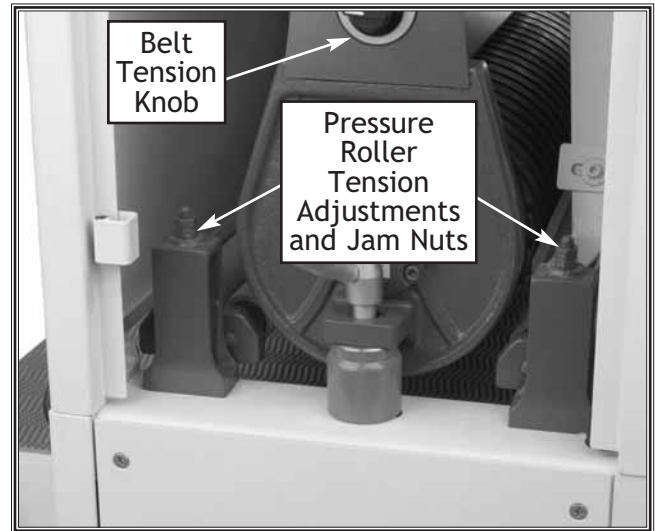
**Figure 16.** Tracking safety switch and adjustment bolt.

# Pressure Rollers

The pressure rollers are factory set so they are parallel with each other, parallel with the sanding drum, and parallel with the surface of the conveyor table. Additionally, the front pressure rollers must be set 0.040" below the sanding drum, and the rear rollers at 0.020" below the sanding drum. When these settings are achieved, the pressure-roller spring tension will be correct.

**To adjust the pressure rollers, do these steps:**

1. **TURN-OFF and LOCK** the master power switch so no power can go to your sander!
2. Make two gauge boards that are 24" long and uniform in thickness.
3. Connect the air pressure and set it to 57 PSI.
4. Install the sanding belt and turn the belt tensioning knob to the 12:00 position to tension the belt. See **Figure 17**.
5. Position each board on each side of the conveyor belt and directly below the front and back pressure rollers. See **Figure 18**.
6. Loosen the adjustment jam nuts and raise the pressure rollers above the sanding belt roller with the adjustment bolts shown in **Figure 17**.
7. Raise the table up until the boards barely touch the sanding belt.
8. Turn the table-height handwheel counter-clockwise one complete turn to lower the table approximately 0.020".
9. Lower the rear pressure rollers so that both ends barely touch the gauge boards. The rear pressure rollers are now set at 0.020" below the sanding drum.
10. Turn the table-height handwheel counter-clockwise again one complete turn, which lowers the table an additional 0.020".
11. Lower the front pressure rollers so that both ends just touch the boards. The front pressure rollers are now set at 0.040" below the sanding drum.
12. Tighten the adjustment jam nuts.



**Figure 17.** Belt and pressure roller adjustments.



**Figure 18.** Gauge boards placed under pressure rollers as a gauge.

## V-Belt Tension

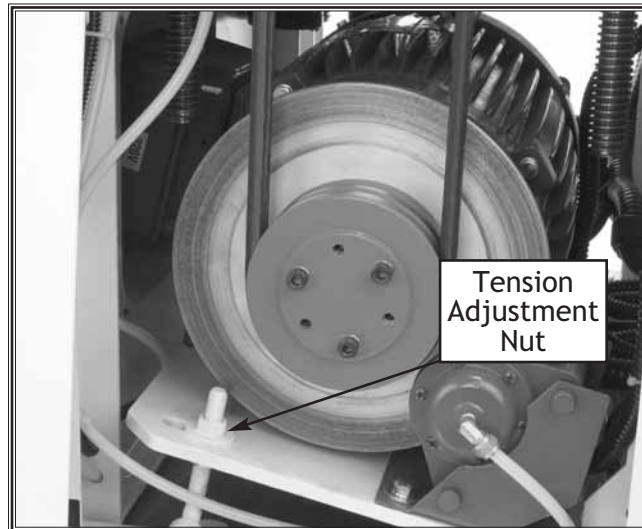
The sanding motor V-belts that drive the sanding rollers (**Figure 19**) and the table lift motor that adjust table height (**Figure 20**), must be tensioned properly for best performance. Only replace the belt if it becomes frayed, cracked, or glazed. If one belt is bad, always replace both belts as a matched set. **NOTE**, Both table lift and sanding motor belts are adjusted the same way.

### CAUTION

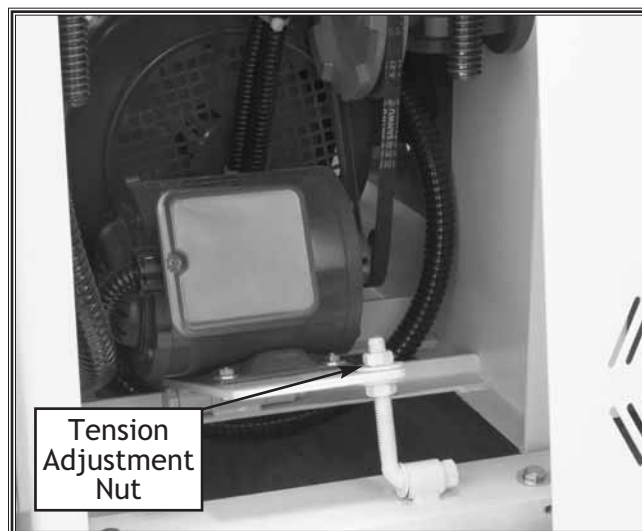
**KEEP** the sanding drum drive belts correctly adjusted. If the belts are loose, and the emergency stop is engaged, the sanding drum pulley will slip and not immediately stop in the event of an emergency!

To tension the V-belts, do these steps:

1. **TURN-OFF** and **LOCK** the master power switch so power cannot start your sander!
2. Remove the lower cover(s) on the sander (right cover for sanding belt motor, left cover for the conveyor height motor).
3. Turn both nuts clockwise to tighten the V-belts, or turn both nuts counterclockwise to loosen the V-belts.
4. The V-belt is properly tightened when it will move no more than  $\frac{3}{4}$ " in the center with moderate pressure from your thumb.



**Figure 19.** Sanding motor v-belt adjustment.



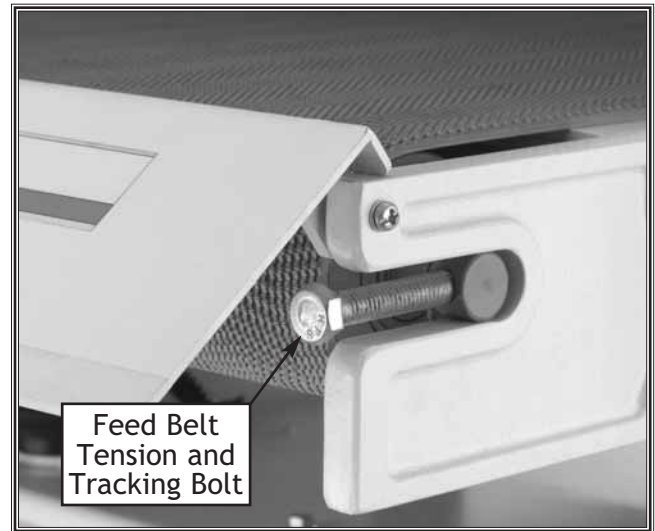
**Figure 20.** Table lift motor v-belt adjustment.

# Feed Belt Tension and Tracking

The feed belt tension and tracking has been set at the factory; however, if at any point you notice that your feed belt is slipping or tracking off center on the rollers and loading up on the positioning wheels under the conveyor table, you must adjust the feed belt tension and tracking.

**To adjust the feed belt tension and tracking, do these steps:**

1. Lift and hold the emergency stop plate up and out of the way. See **Figure 21**.
2. Turn the feed belt tension and tracking bolts equal amounts from side-to-side and set the belt tension so it is snug and will not slip when sanding at a maximum load.



**Figure 21.** Feed belt tension bolt shown with the emergency brake raised.



3. Start the conveyor.
4. Turn the feed belt tension and tracking bolt to position the feed belt roller evenly on each side. See **Figure 21**.
  - If the conveyor tracks to the right, turn the right-side tension and tracking bolt clockwise in approximately  $\frac{1}{4}$  turn increments.
  - If the conveyor tracks to the left, turn the left-side tension and tracking bolt clockwise in approximately  $\frac{1}{4}$  turn increments.
5. Run the feed belt for at least three minutes to determine if the tracking is correct and the tension stays the same.
6. Repeat steps as required to achieve the correct tension and tracking.
7. Test emergency stop operation.

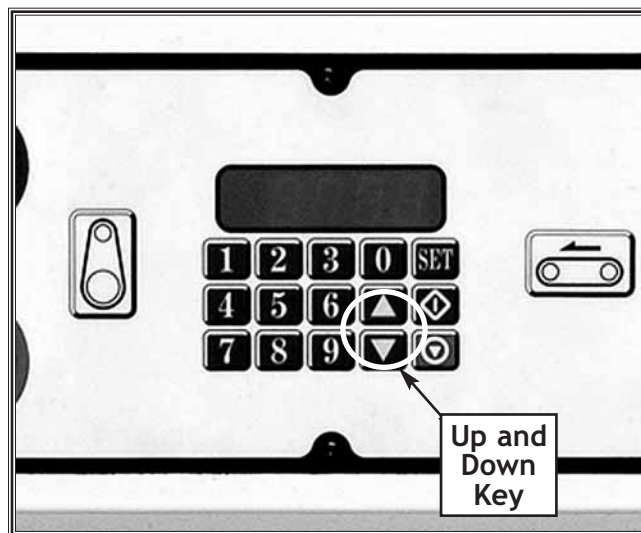


# Table Stop Switches

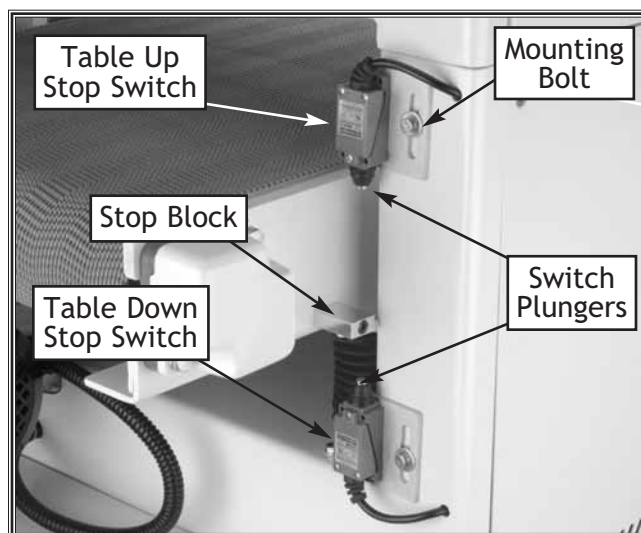
The table stop switches prevent the table lift motor from running the table into the sanding drum and bottoming out the table lift mechanism at the end of the jack screws. Periodically adjust the table stop switches.

To adjust table stop switches, do these steps:

1. Apply air to the sander and tension the sanding belt.
2. Push the down arrow key and lower the table until you achieve 6 inches between the sanding drum and the conveyor table surface. See **Figure 22**.
3. Loosen the mounting bolt for the table-down stop switch and move the switch so the switch plunger depresses against the stop block and you hear the switch click. See **Figure 23**.
4. Re-tighten the mounting bolt.
5. Push the up arrow key and raise the table until you achieve an  $\frac{1}{8}$  inch between the sanding drum and the conveyor table surface.
6. Loosen the mounting bolt for the table-up stop switch and move the switch so the switch plunger depresses against the stop block and you hear the switch click. See **Figure 23**.
7. Re-tighten the mounting bolt.
8. Use the up and down buttons and test the table operation and make sure the switches shut the table lift motor **OFF** when the table is at the minimum and maximum distance from the sanding drum.



**Figure 22.** Key pad table-lift controls.



**Figure 23.** Table stop switch adjustment locations.

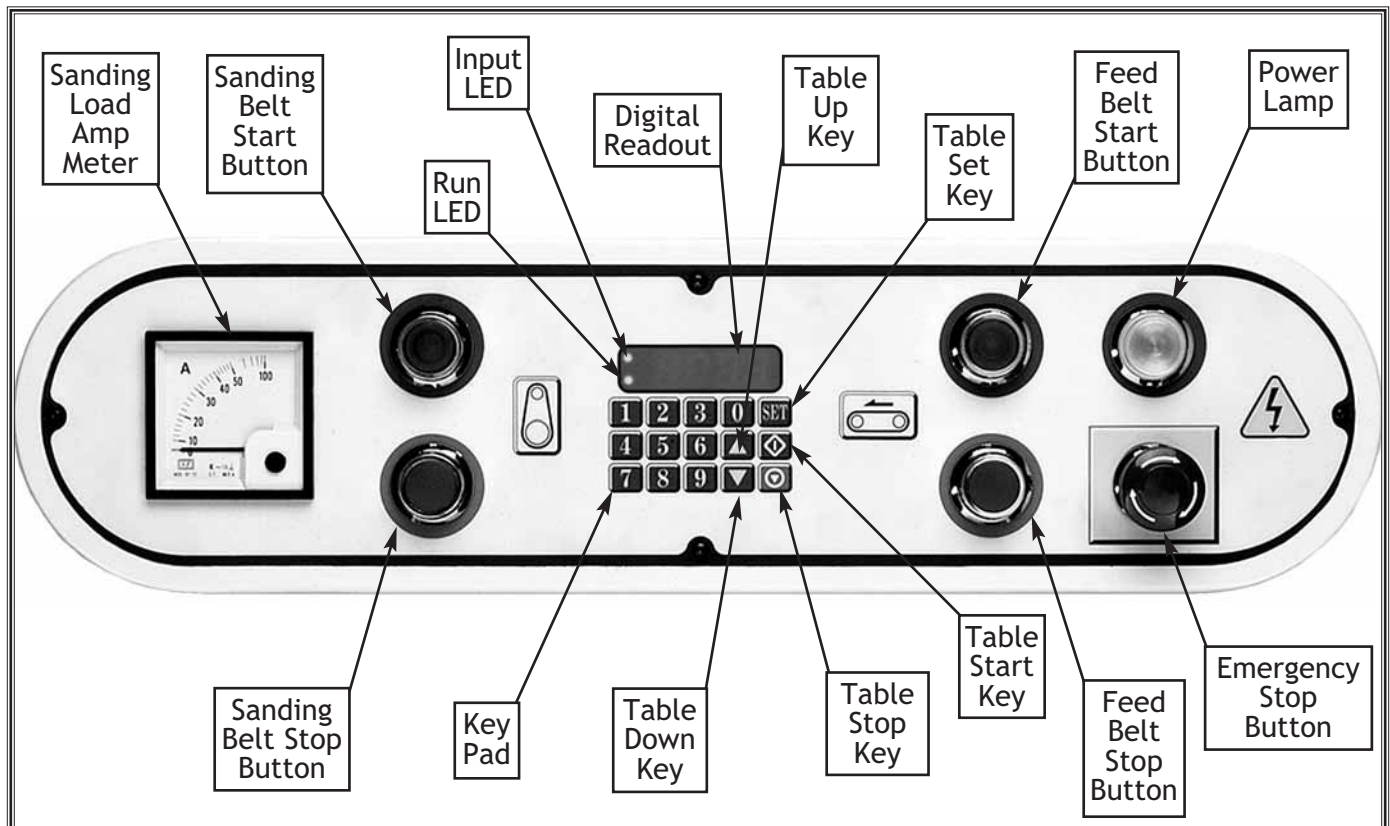


# OPERATIONS

## Control Panel

Below is a summary of your sander control panel and the components that it controls. Use this information to become familiar with your sander. See **Figure 24**.

- **Power Lamp:**  
Indicates when machine has power to the control panel.
- **Emergency Stop Button:**  
Stops all electrical power to motors in event of emergency, and stops sanding drums with an air-disc brake.
- **Sanding Belt Start and Stop Buttons:**  
Cycles the sanding motor **ON** and **OFF** if the sander has air pressure and the belt is tensioned.
- **Feed Belt Start and Stop Buttons:**  
Cycles the conveyor motor **ON** and **OFF** for feeding wood into the sander.
- **Table Up and Down Keys:**  
Manually cycles the table lift motor to raise and lower the table.
- **Table Start and Stop Keys:**  
Cycles the table lift motor in and out of the automatic raise and lower function.
- **Sanding Load Amp Meter:**  
Indicates the current amp load on the sanding motor when a sanding operation is in progress.
- **Digital Readout:** Displays current sander settings.
- **Input LED:** Indicates the sander is waiting for new numerical dimension values.
- **Run LED:** Indicates the conveyor lift motor is operating.
- **Key Pad:** Allows you to input your numerical sanding specifications for automated sanding control.



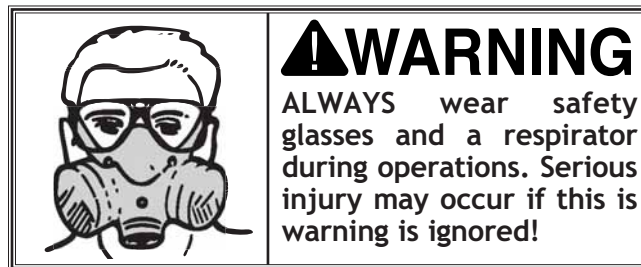
**Figure 24.** Control panel interface.

## Test Run

Once assembly is complete, the machine is ready for a test run. The purpose of a test run is to identify any unusual noises and vibrations, as well as to confirm that the machine is performing as intended.

To complete the test run, do these steps:

1. Tie back loose clothing and hair, and wear a respirator and safety glasses.
2. Apply power to the sander and connect the supply air to the sander. Make sure the air pressure is set at 57 PSI.
3. Make sure the sanding belt is tensioned.
4. Make sure all access doors and handles are secured.
5. Start the dust collection system.
6. Turn the sander and feed belt *ON*.
7. Listen for any unusual noises. The machine should run smoothly with little or no vibrations.
  - If there are any unusual noises or vibrations, shut the machine off immediately. **TURN-OFF and LOCK the master power switch so no power can go to your sander, and disconnect the air line.**
  - Investigate the source of the noise or vibration. **DO NOT** make any adjustments to the machine while it is plugged in. The machine should not be run any further until the problems are corrected.



## Selecting Sandpaper

When selecting sandpaper, keep in mind that the Model W1709 accepts only 20<sup>1</sup>/<sub>2</sub>" W x 48" L belts. Consider the type of work, the species of wood and the stage of finishing. Use these numbers as a general guide to sandpaper type:

- 60 Grit.....Coarse
- 80-100 Grit .....Medium
- 120-150 Grit .....Fine

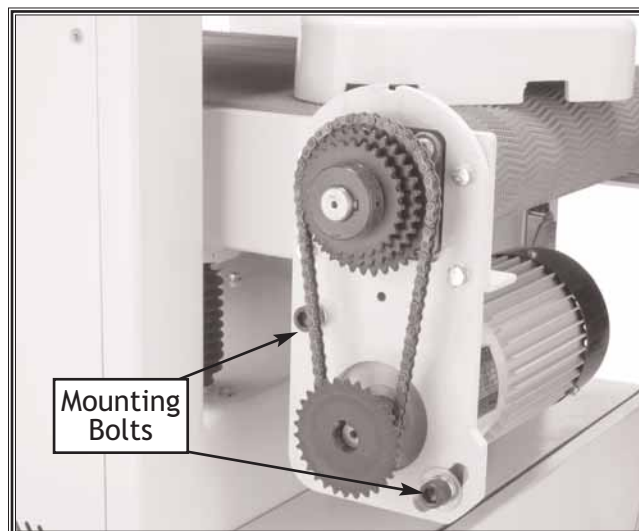
*For best results, do not increase grit numbers more than 50 on any successive pass.*

## Setting Feed Speed

The feed belt motor offers speeds of 16.4, 23, and 32.8. **Figure 24** points out the variable conveyor feed speed control knob.

To change the feed belt speed do these steps:

1. **TURN-OFF** and **LOCK** the master power switch so power cannot start your sander!
2. Remove the 6mm Allen screw in the center of the chain cover and remove the cover.
3. Use a  $\frac{7}{8}$ " Allen wrench and loosen the two motor retaining bolts.
4. Pivot the motor upward and move the chain to the required set of sprockets.
5. Re-tension the motor, tighten bolts and reinstall the cover.



**Figure 24.** Changing conveyor speed.

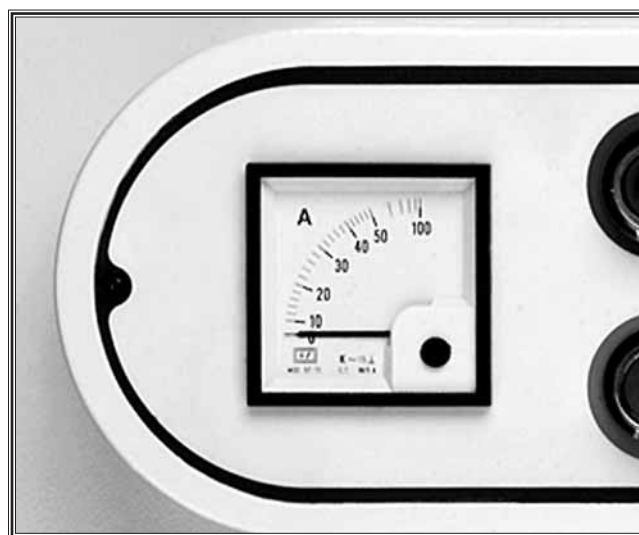
## Using the Load Meter

### NOTICE

Removing too much material from the workpiece during one pass slows the motor RPM to the point where the internal start windings engage and motor damage occurs. An indication of motor overloading is failed start capacitors, which may not be covered under warranty.

The load meter shown in **Figure 25** is an important tool for determining sanding depth while you are feeding the workpiece. The load meter displays the amperage draw of the sanding motor, which is an indicator of how deep the sanding depth is.

Use this meter to maintain consistent sanding depths. Generally, the normal depth of cut is no more than  $\frac{1}{64}$ " or 0.016" for a 20" wide board.



**Figure 25.** Load meter.

## Emergency Stop

When pushed, the emergency stop plate shown in **Figure 26** stops electricity to the motors and stops the sander quickly by using a disc brake on the drive motor.

### CAUTION

KEEP the sanding drum drive belts correctly adjusted. If the belts are loose, and the emergency stop is engaged, the sanding drum pulley will slip and not immediately stop in the event of an emergency!

To apply the emergency stop, do these steps:

1. Push the bottom of the emergency stop plate as far as it will go.
2. Hold the emergency stop plate until the sander has come to a complete stop.

## Keypad and Display

The conveyor table lift motor is controlled by the key pad and indicated on the digital display shown in **Figure 27**. You can push the **UP** or **DOWN** arrow keys to lift or lower the table, or you can use the automated function of auto height adjustment for your next sanding pass. All functions are controlled through the key pad and are presented on the digital display. See **Figure 27**.

## Calibrating the Table

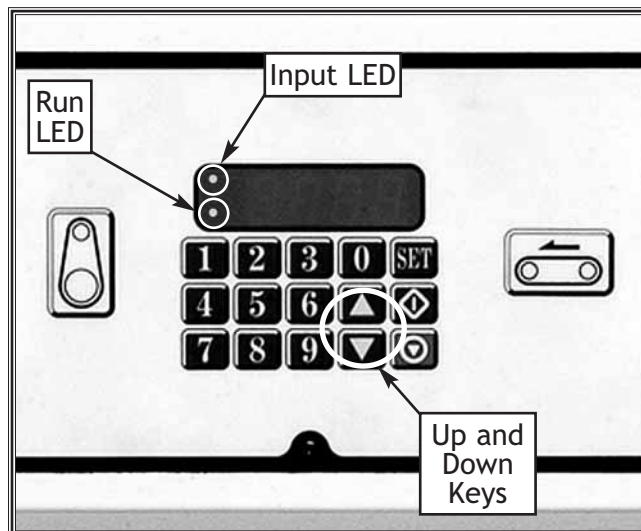
When you change the sandpaper or you notice and inconsistency with the actual sanding thickness in relationship to your digital setting, you must re-calibrate the table.

To re-calibrate your table, do these steps:

1. Insert a calibration board that is 1-1/2" thick.
2. Press the UP arrow key:  
so the table lifts and the sandpaper just touches the surface of the calibration board. For fine tuning the clearance, use the handwheel shown in **Figure 28** instead of the arrow keys. DO NOT hold or grab the handwheel when using the arrow key, as the motor is driving the handwheel in that mode of operation.





**Figure 26.** Emergency stop plate.



**Figure 27.** Digital display and key pad.




**Figure 28.** Table height handwheel.

3. Use the numeric key pad and enter the thickness of your calibration board (Example: 1.500 for 1-1/2" thick).
4. Press and hold the **SET** key for 3 seconds:  The table is now calibrated.
5. Press the down arrow key: 
6. Remove the calibration board.

## Basic Sanding

To achieve the best sanding results experiment with conveyor feed rate, sanding depth, various grits of sandpaper, and oscillation speed.


**To sand a workpiece, do these steps:**

1. Make sure the table is calibrated and the needed sandpaper is installed and tensioned.
2. Turn the sander **OFF**, set the feed rate, then turn the sander **ON**.
3. Measure your workpiece and find the highest location.
4. Type in the thickness of your workpiece using the numeric key pad (Example: for a 2" thick workpiece type 2.000"), and press the table start key: 

**Note:** the upper left corner Input Led will illuminate (See **Figure 27**), and the display numbers will flash when entering measurements.

5. Measure the sanding depth needed. Example: let's say you need 1/16".

**Note:** removing too much material can burn the workpiece, tear the paper, and give poor sanding results.

6. Convert 1/16" fraction to a 0.063" decimal measurement using the conversion table on the sander.
7. Calculate the resulting workpiece thickness (2.000" - 0.063" = 1.937"), and type the thickness (1.937") on the key pad.
8. Press the table start key:  The table will raise 0.063".

**Note:** The lower left corner Run Led will illuminate and the display numbers will glow steady when measurements have been accepted and the table is auto-adjusting.

**Note:** When the correct sanding depth is achieved, the lower left corner Run Led will turn off and the final resulting workpiece thickness is displayed.

10. Start the conveyor, stand to the side as shown in **Figure 29**, and feed the workpiece into the sander.
11. Observe the load meter, and press the table down arrow key on the key pad to reduce the sanding depth if there is a problem.
12. Remove the workpiece from the outfeed side, which is now sanded down 1/16". You now can add a new sanding depth the same way as in **steps 7 and 8** and sand again.



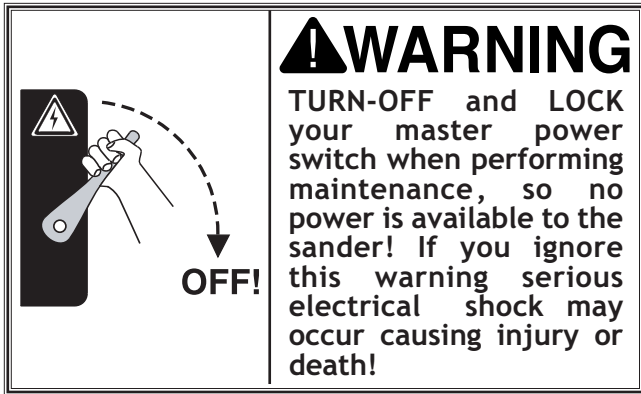
**Figure 29.** Operator feeding workpiece in correct body position and out of the way of potential kickback.

## Quick Tip

*For best results for finish sanding, feed each piece through the sander two or three times without adjusting the depth of cut. Turn the workpiece 180° and feed it through two or three more times at this same depth. As always, use your best judgement. If you no longer hear the sanding belt making contact with the workpiece on successive cuts, then no further passes are needed at that depth.*



# MAINTENANCE



## General

Regular maintenance on your Model W1709 will ensure its optimum performance. Make a habit of inspecting your machine each time you use it. And at the end of the day remove the sanding belt and clean the back side of the sanding belt and the drums. Also vacuum wood and abrasive dust from the inside of the machine.

Check for the following conditions and repair or replace when necessary:

- Loose mounting bolts.
- Worn switches.
- Worn or damaged cords and plugs.
- Damaged belts.
- Any other condition that could hamper the safe operation of this machine.
- Check the entire air system for leaks.

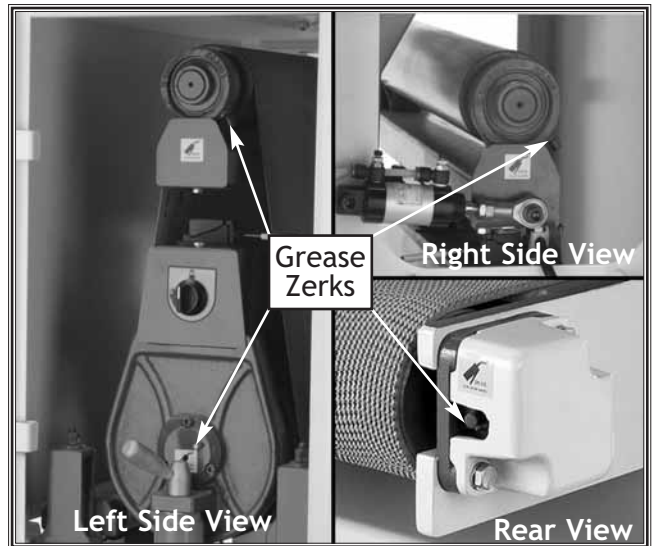
## Lubrication

Wipe off all sawdust and abrasives on grease zerks and plugs before lubrication. When lubricating machine parts, your goal is to achieve adequate lubrication to prevent rust, and a thin layer of lubricant to prevent metal-to-metal friction. Too much lubrication will attract dirt and sawdust, and as a result, these parts could lose freedom of movement.

- After 150 hours of use lubricate the bearings with one squirt of automotive-grade grease at the designated points, see **Figure 31**.
- All other bearings are sealed and permanently lubricated, simply leave them alone until they need to be replaced. Do not lubricate them.



**Figure 30.** Conveyor speed change.



**Figure 31.** Grease zerk locations.

- After every 20-40 hours of use, lubricate the elevation screws, chains, sprockets, and the table guides under the table with a light coating of white lithium grease. See **Figure 32**.

## Cleaning Belts

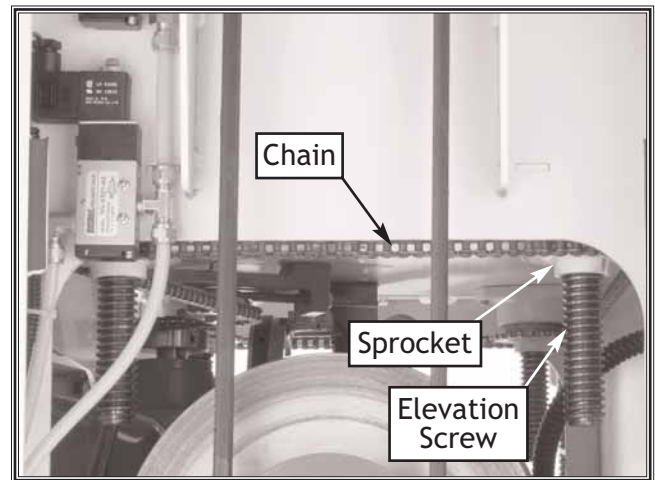
To increase working life of your sanding belts, we recommend that you routinely clean them with a Pro-Stik® Cleaning Pad shown in **Figure 33**.

To clean the belts, simply set your table to the thickness of the cleaning pad and run the pad through the sander two or three times. *DO NOT take too deep of a cut. The belt should barely touch the cleaning pad!*

Clean sanding belts whenever they decrease in performance due to heavy loading.

## Servicing Separators

The moisture bowl on the regulator needs to be emptied and cleaned whenever it gets more than half full. See **Figure 34**.



**Figure 32.** Lubrication points.



**Figure 33.** Pro Stik® cleaning pad.



**Figure 34.** Drain the moisture bowl often.



## Servicing Brake

Any grease or oil on the emergency brake rotor creates the potential for reduced emergency braking ability. Check the brake rotor (shown in **Figure 35**) regularly to make sure it is clean. If it needs cleaning, only use automotive brake parts cleaner and a dry rag. **DO NOT** use water!

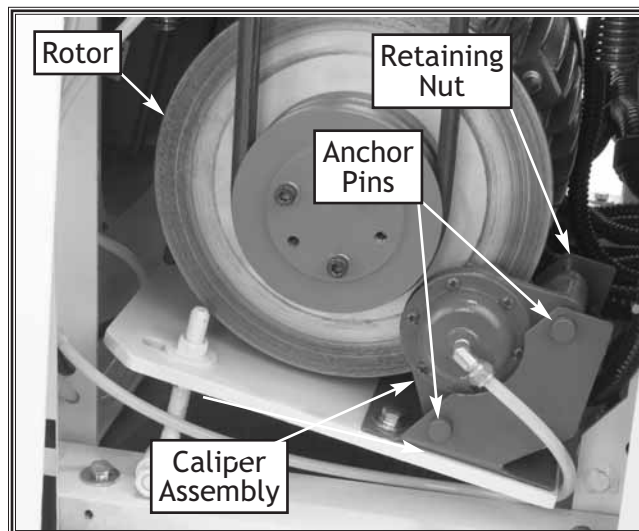
The brake pads shown in **Figure 36** will eventually need to be replaced.

To check the condition of the brake pads, do these steps:

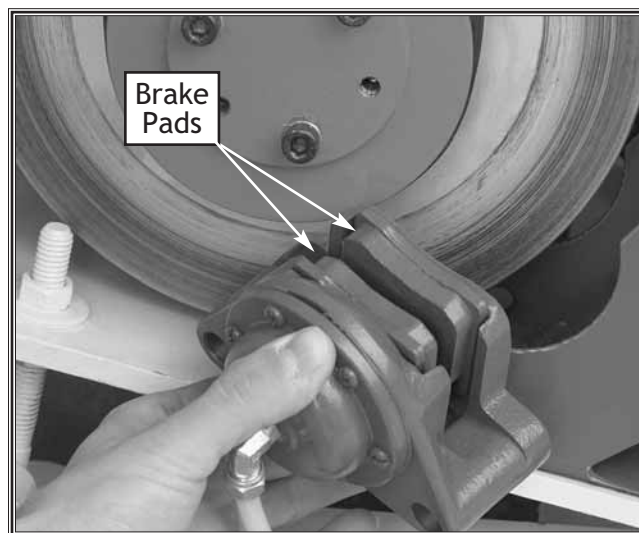
1. **TURN-OFF and LOCK** the master power switch so no power can go to your sander and shut off the air pressure!
2. Remove the lower right cover.
3. Measure the thickness of each pad. If a pad is below  $\frac{1}{8}$ ", then replace both.

To replace the brake pads, do these steps:

1. **TURN-OFF and LOCK** the master power switch so no power can go to your sander, and shut off the air pressure!
2. Use a 14mm wrench and remove the two caliper anchor pin retaining nuts and washer. See **Figure 35**.
3. Use ViceGrip® or similar pliers to clamp on the anchor pin end and pull the pin from the caliper mount and remove the springs. See **Figure 35**.
4. If the rotor is damaged, remove it and have it surfaced at a machine shop. Clean the rotor with automotive brake parts cleaner and handle it with a dry rag when installing.
5. To finish the job, install the new brake pads, reassemble and mount the caliper, and reconnect the air line if removed.
6. Test emergency brake operation!



**Figure 35.** Brake assembly.



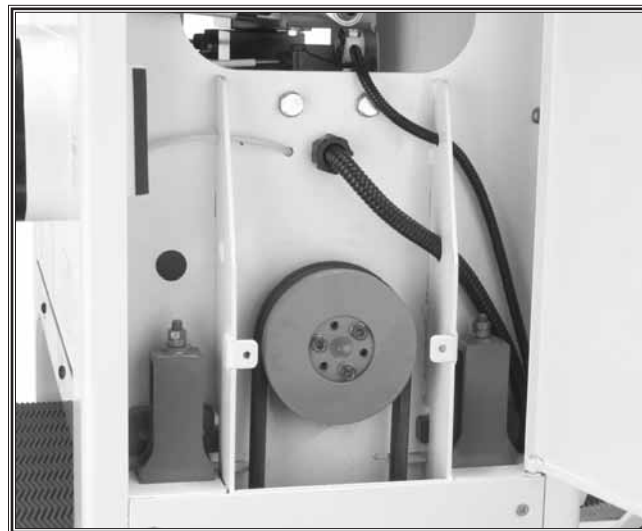
**Figure 36.** Brake caliper removed for access to brake pads.

# Changing V-Belts

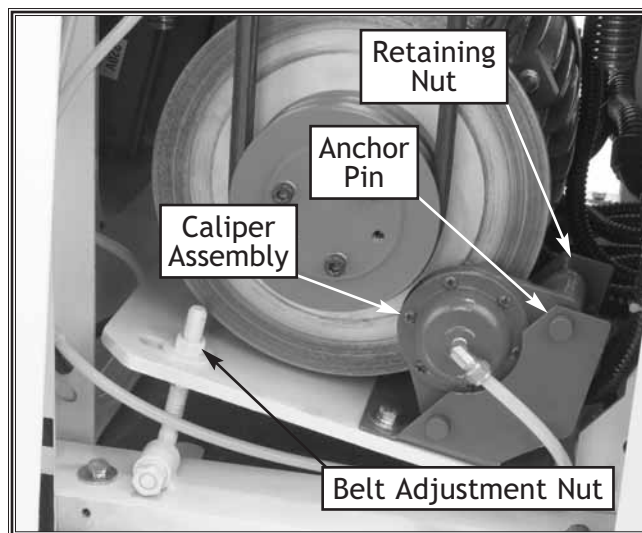
Check the V-belts periodically to check for signs of glazing, cracking or fraying. If any of these conditions are present, change both V-belts.

To change the V-belts, do these steps:

1. **TURN-OFF and LOCK** the master power switch so no power can go to your sander and shut off the air pressure!
2. Open both right-side upper and lower access covers.
3. Remove the two screws and the safety cover for access to the upper pulley. See **Figures 37**.
4. Use a 14mm wrench and remove the upper caliper anchor pin retaining nut and washer. See **Figure 38**.
5. Use ViceGrip® or similar pliers to clamp on the anchor pin end and pull the pin from the caliper mount and remove the springs. See **Figure 38**.
6. Pivot the caliper down and away from the rotor for belt clearance.
7. Remove the upper belt adjustment nut and washer. See **Figure 38**.
8. Pry the motor base plate upward to de-tension the belts and roll the belts off of the motor pulley.
9. Install the new V-belts.
10. Replace the upper belt adjustment nut and washer, and tension the belts.
11. The V-belt is properly tensioned when it will move no more than  $\frac{3}{4}$ " in the center with moderate pressure from your thumb.
12. Reassemble in reverse order and test the emergency brake operation.



**Figure 37.** Upper pulley exposed.



**Figure 38.** Belt removal access.

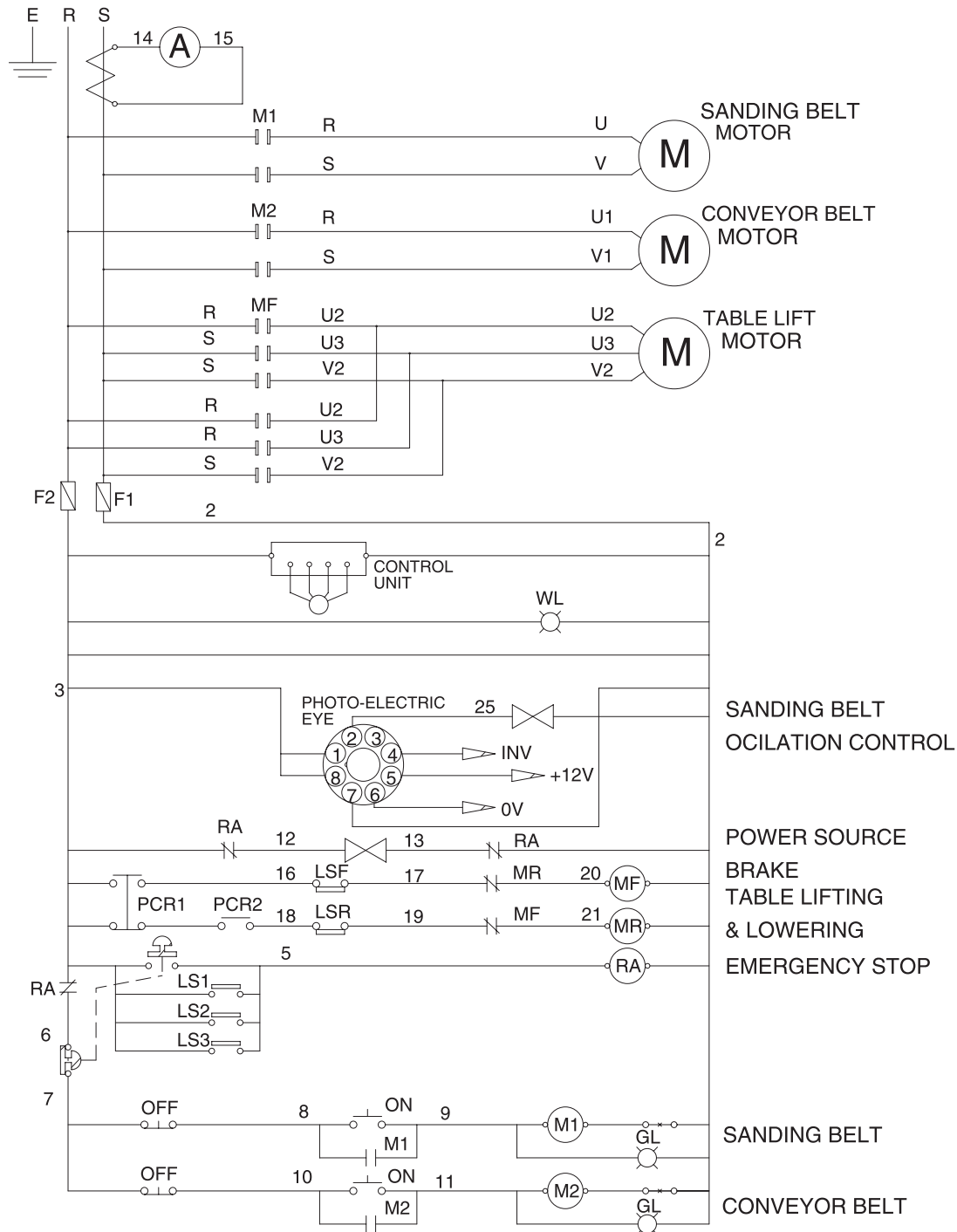
# Troubleshooting

| SYMPTOM   | POSSIBLE CAUSE   | HOW TO REMEDY   |
|---|--|---|
| Motor will not start; fuses or circuit breakers blow.       | <ol style="list-style-type: none"> <li>1. Low voltage.</li> <li>2. Open circuit in motor or loose or shorted connections.</li> <li>3. Short circuit in motor or loose connections.</li> <li>4. Incorrect fuses or circuit breakers.</li> <li>5. Faulty start capacitor.</li> <li>6. Faulty motor.</li> </ol> | <p>Check power line for proper voltage.</p> <p>Inspect all lead connections on motor for loose, shorted, or open connections and replace or repair.</p> <p>Inspect all connections on motor for loose or shorted terminals or worn insulation.</p> <p>Install correct fuses or circuit breakers.</p> <p>Replace the start capacitor and do not to overload motor.</p> <p>Replace motor.</p> |
| Motor overheats.  | <ol style="list-style-type: none"> <li>1. Motor overloaded.</li> <li>2. Air circulation through the motor restricted.</li> </ol>   | <p>Reduce load on motor.</p> <p>Clean out motor to provide normal air circulation.</p>  |
| Motor stalls (resulting in blown fuses or tripped circuit). | <ol style="list-style-type: none"> <li>1. Short circuit in motor or loose connections.</li> <li>2. Low voltage.</li> <li>3. Incorrect fuses or circuit breakers in power line.</li> <li>4. Motor overloaded.</li> <li>5. Faulty run capacitor.</li> </ol>  | <p>Inspect connections on motor for loose or shorted terminals or worn insulation.</p> <p>Correct the low voltage conditions.</p> <p>Install correct fuses or circuit breakers.</p> <p>Reduce load on motor.</p> <p>Replace the run capacitor.</p>  |
| Machine slows when operating.                               | <ol style="list-style-type: none"> <li>1. Feed rate too high.</li> <li>2. Depth of cut too great.</li> </ol>   | <p>Feed workpiece slower.</p> <p>Reduce depth of cut.</p>   |
| Loud, repetitious noise coming from machine                 | <ol style="list-style-type: none"> <li>1. Pulley set screws or keys are missing or loose.</li> <li>2. Motor fan is hitting the cover.</li> <li>3. V-belt is defective.</li> </ol>  | <p>Inspect keys and set screws. Replace or tighten if necessary.</p> <p>Tighten fan.</p> <p>Replace V-belt. See Maintenance section.</p>  |
| Machine is loud, overheats or bogs down in the cut.         | <ol style="list-style-type: none"> <li>1. Excessive depth of cut.</li> <li>2. Dull sanding belt.</li> </ol>  | <p>Decrease depth of cut.</p> <p>Replace sanding belt.</p>  |
| Edges of wood are rounded.                                  | Excessive depth of cut.  | Reduce depth of cut.  |
| Uneven thickness from left to right of board.               | <ol style="list-style-type: none"> <li>1. Feed table not parallel to sanding roller.</li> <li>2. Feed belt is worn.</li> </ol>   | <p>Adjust the table.</p> <p>Replace feed belt.</p>  |
| Workpiece slips on feed belt.                               | <ol style="list-style-type: none"> <li>1. Pressure rollers set too high.</li> <li>2. Dirty feed belt.</li> <li>3. Feed belt is worn.</li> </ol>  | <p>Lower pressure rollers.</p> <p>Clean feed belt.</p> <p>Replace feed belt.</p>  |
| Straight strip of notches on workpiece.                     | Pressure rollers are dirty or damaged.   | Clean or repair pressure rollers.   |
| Snake shaped marks on workpiece.                            | Sanding belt damaged or dirty.   | Clean or replace sanding belt.  |

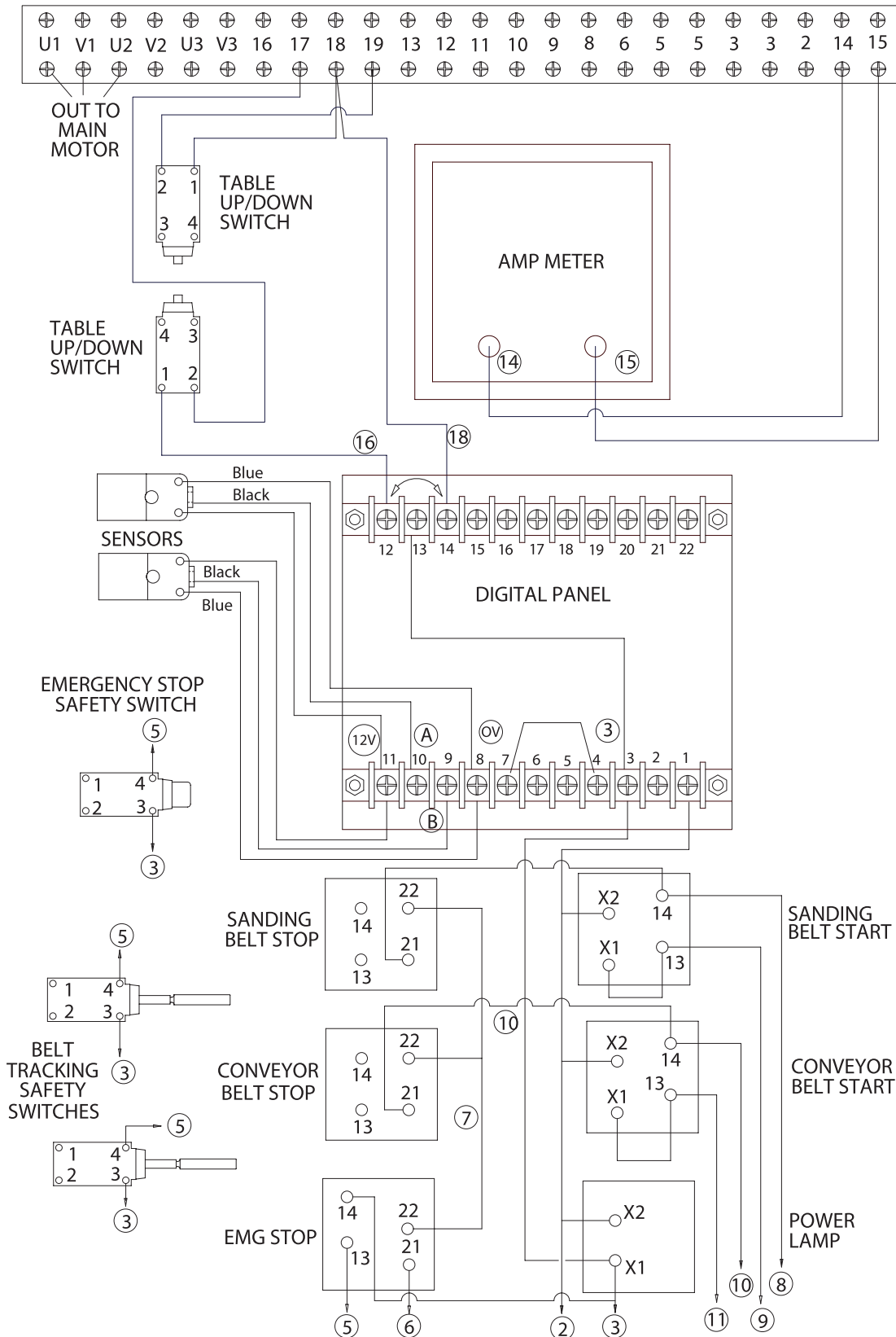
# W1709 Wiring Diagram

**! DANGER**

Disconnect power from machine before performing any electrical service. Failure to do this will result in a shock hazard leading to injury or death.

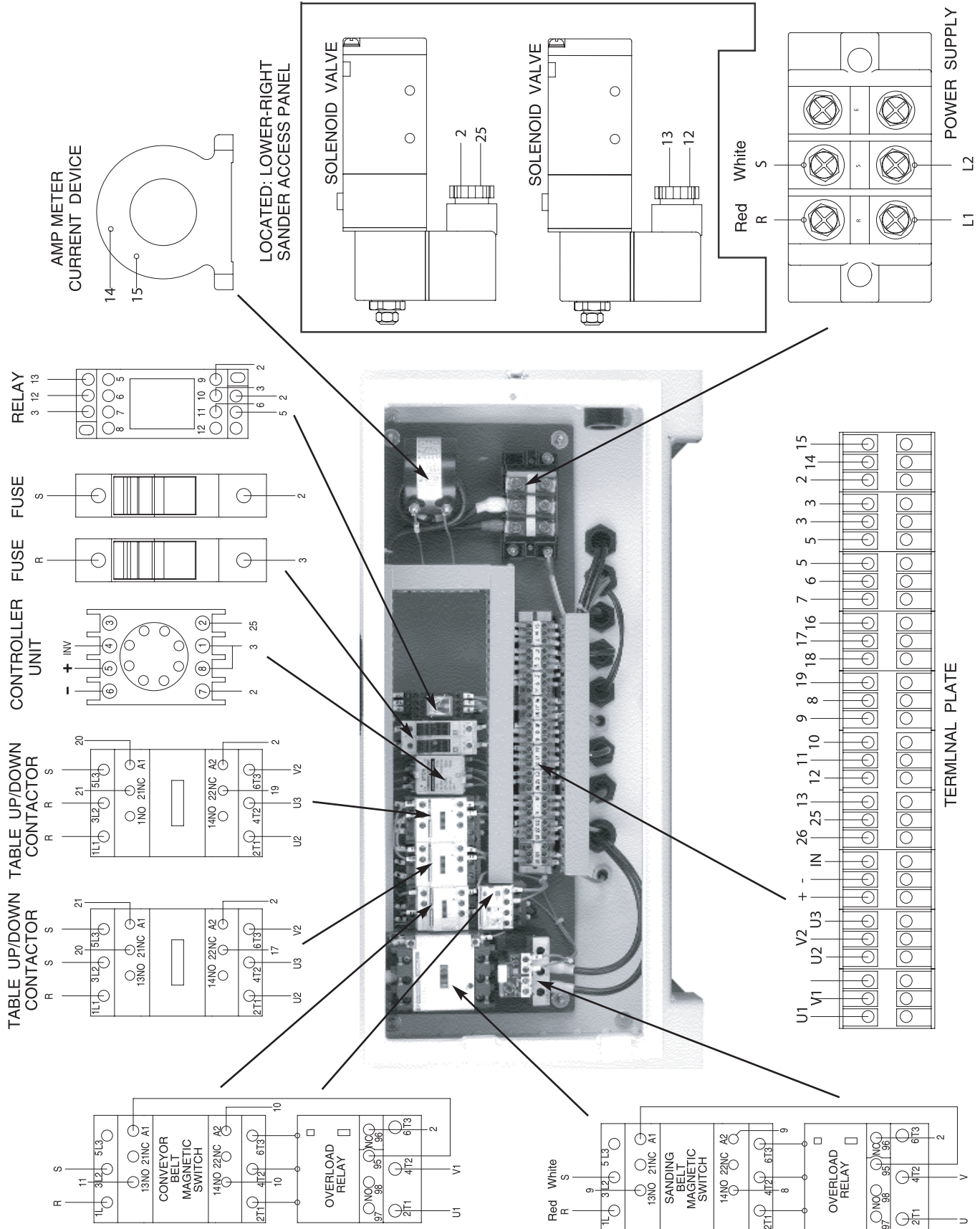


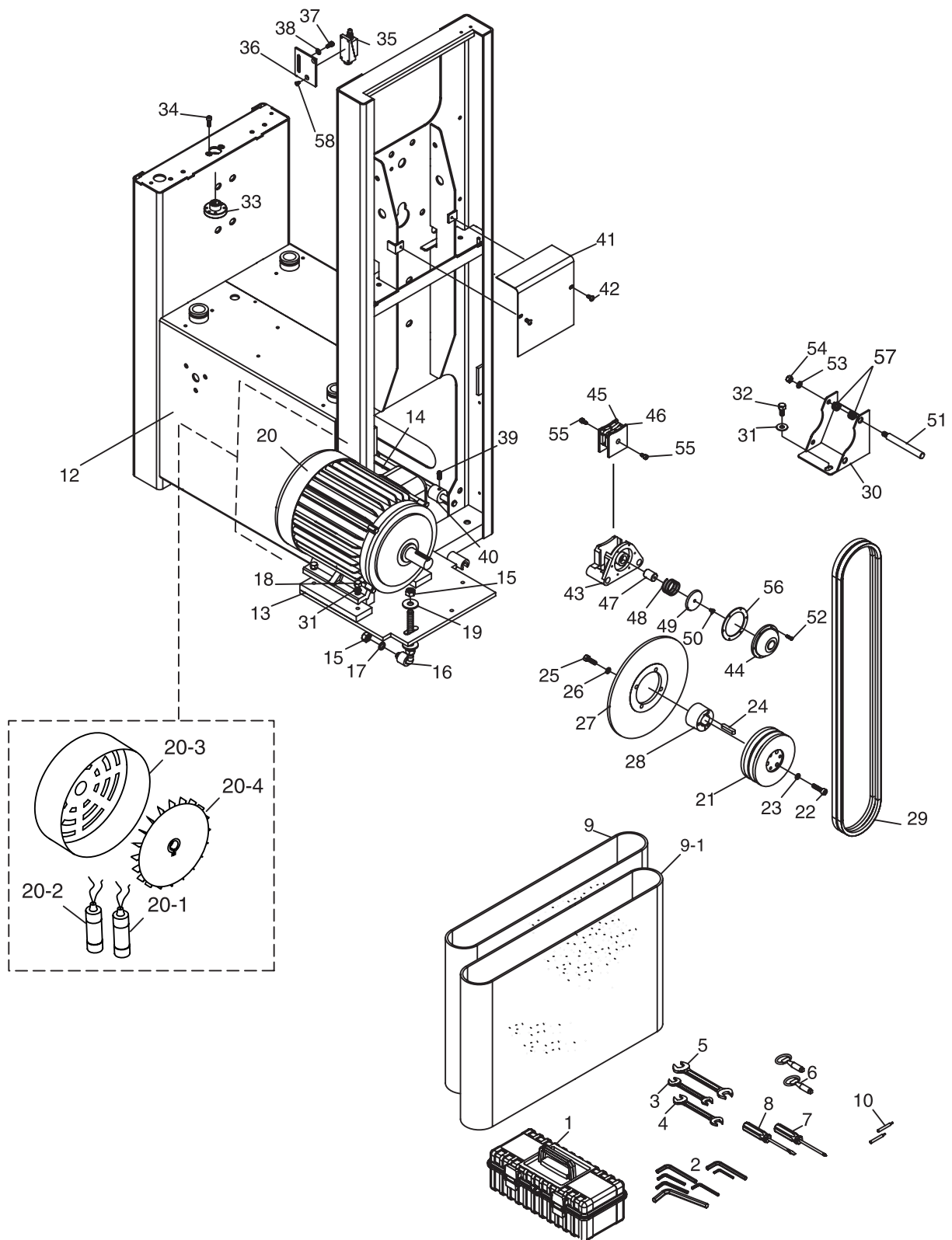
# W1709 Control Panel Wiring Connections



MAINTENANCE

# W1709 Switch Box Wiring Connections

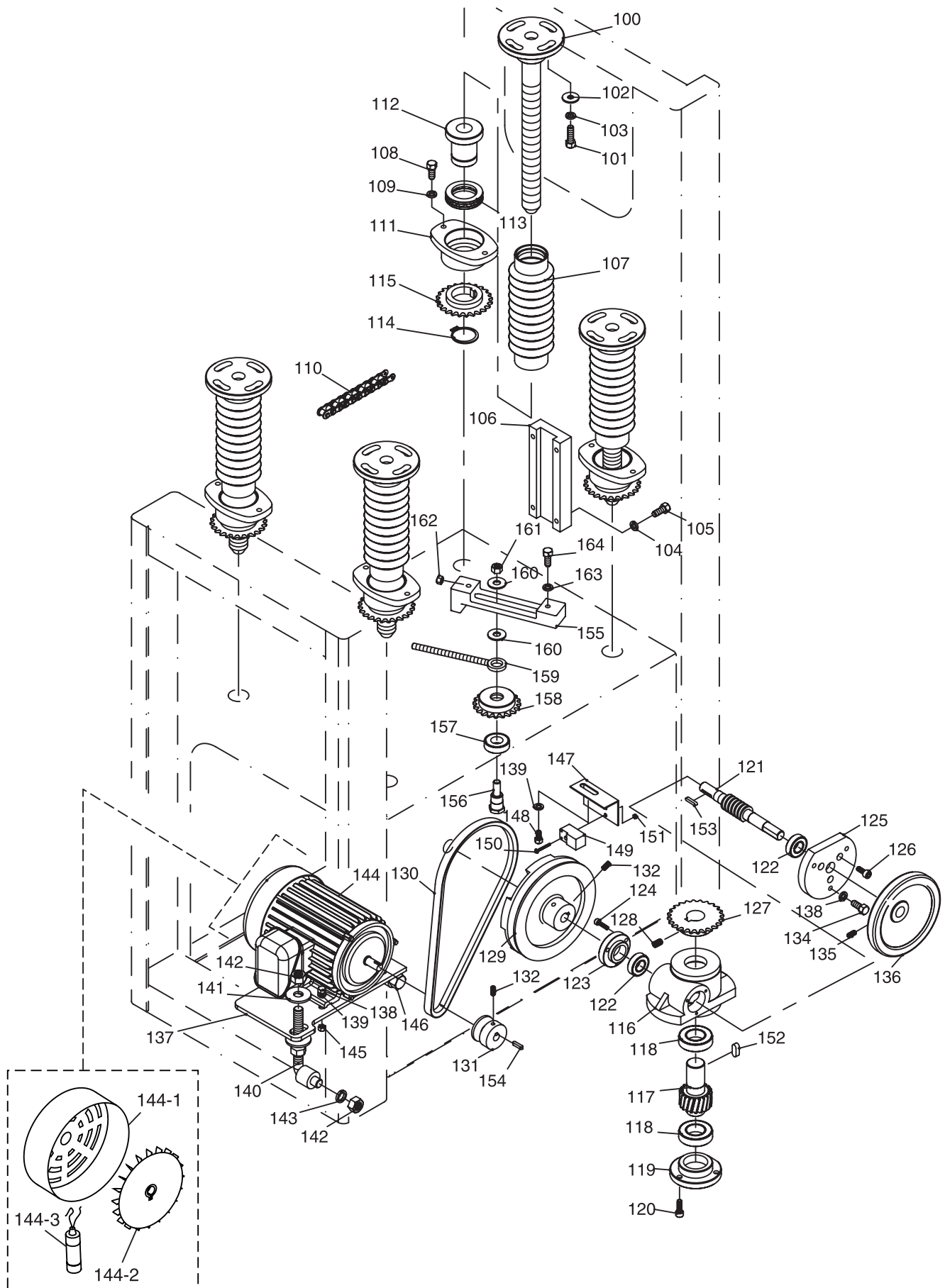






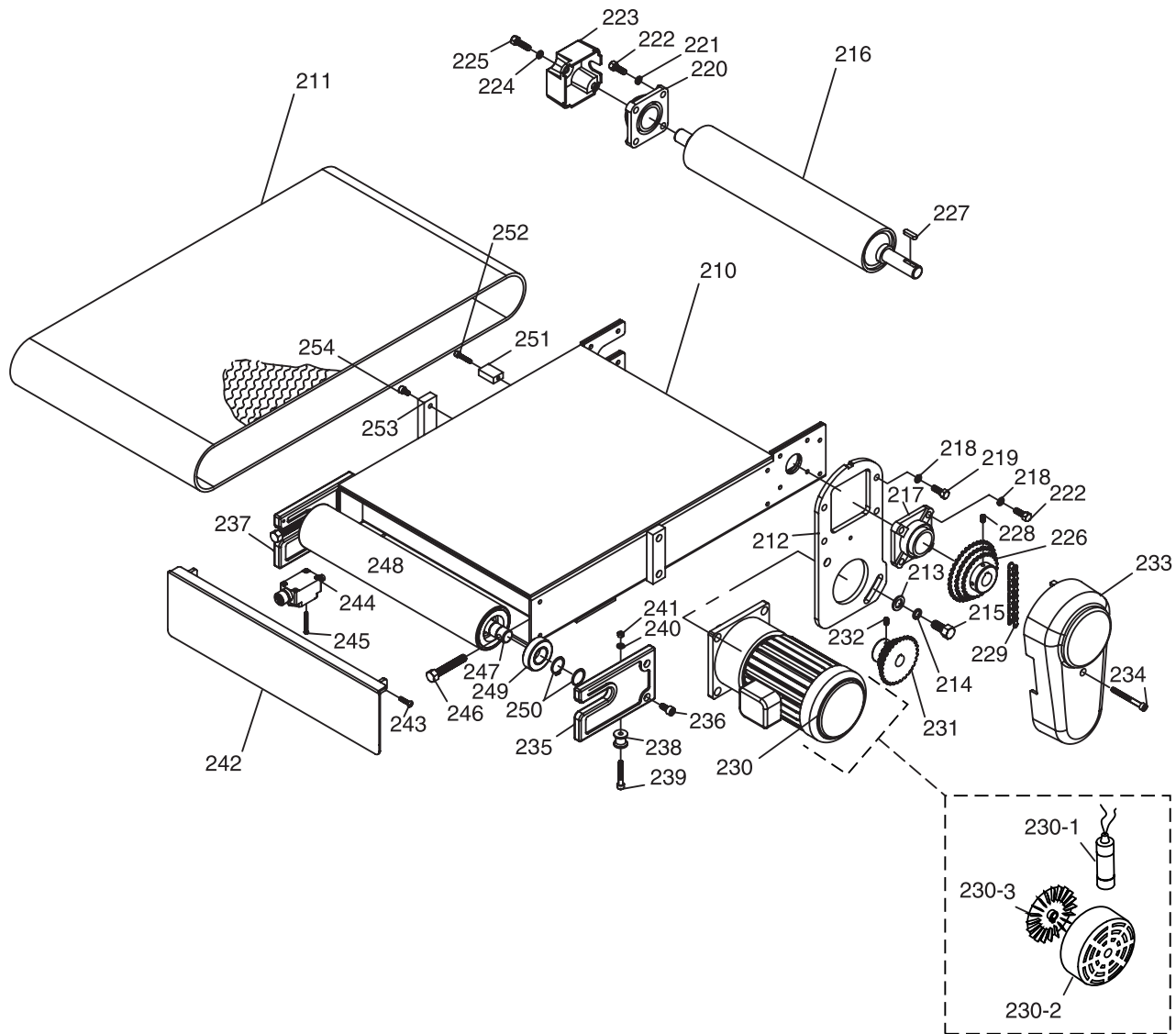
| REF  | PART #      | DESCRIPTION                  |
|------|-------------|------------------------------|
| 1    | X1709001    | TOOL BOX                     |
| 2    | X1709002    | HEX WRENCH SET               |
| 3    | XPWR810     | COMBO WRENCH 8 X 10MM        |
| 4    | XPWR1214    | COMBO WRENCH 12 X 14MM       |
| 5    | XPWR1719    | COMBO WRENCH 17 X 19MM       |
| 6    | X1709006    | DOOR HANDLE                  |
| 7    | X1709007    | PHILLIP'S SCREWDRIVER        |
| 8    | X1709008    | SLOT SCREWDRIVER             |
| 9    | X1709009    | A.O. SANDING BELT (150 GRIT) |
| 9-1  | X1709009-1  | A.O. SANDING BELT (100 GRIT) |
| -    | D3305       | A.O. SANDING BELT (60 GRIT)  |
| -    | D3306       | A.O. SANDING BELT (80 GRIT)  |
| -    | D3307       | A.O. SANDING BELT (100 GRIT) |
| -    | D3308       | A.O. SANDING BELT (120 GRIT) |
| -    | D3309       | A.O. SANDING BELT (150 GRIT) |
| -    | D3310       | A.O. SANDING BELT (180 GRIT) |
| -    | D3311       | A.O. SANDING BELT (220 GRIT) |
| 10   | X1709010    | LIMIT SWITCH ROD             |
| 12   | X1709012    | MACHINE FRAME                |
| 13   | X1709013    | MOTOR BASE                   |
| 14   | X1709014    | MOTOR BASE HINGE             |
| 15   | XPN06       | HEX NUT 1/2"-12              |
| 16   | X1709016    | ADJUSTMENT ROD               |
| 17   | XPLW07      | LOCK WASHER 1/2"             |
| 18   | XPB24       | HEX BOLT 3/8"-16 X 1 1/4"    |
| 19   | XPW01       | FLAT WASHER 1/2"             |
| 20   | X17091109   | MOTOR 7 1/2 HP, 1PH          |
| 20-1 | X17091109-1 | START CAP. (500MFD 250VAC)   |
| 20-2 | X17091109-2 | RUN CAPACITOR (50MFD 300VAC) |
| 20-3 | X17091109-3 | FAN COVER                    |
| 20-4 | X17091109-4 | FAN                          |
| 21   | X1709021    | PULLEY                       |
| 22   | XPSB11      | CAP SCREW 5/16"-18 X 1 1/4"  |
| 23   | XPLW01      | LOCK WASHER 5/16"            |

| REF | PART #      | DESCRIPTION                 |
|-----|-------------|-----------------------------|
| 24  | X1709024    | KEY 8 X 8 X 55MM            |
| 25  | XPB12       | HEX BOLT 5/16"-18 X 1 1/4"  |
| 26  | XPLW01      | LOCK WASHER 5/16"           |
| 27  | X1709027    | BRAKE DISC                  |
| 28  | X1709028    | PULLEY BUSHING              |
| 29  | XPVA68      | V-BELT A-68                 |
| 30  | X1709030    | BRAKE BRACKET               |
| 31  | XPW02       | FLAT WASHER 3/8"            |
| 32  | XPB21       | HEX BOLT 3/8"-16 X 3/4"     |
| 33  | X1709033    | FLANGE HUB                  |
| 34  | XPSB05      | CAP SCREW 1/4"-20 X 3/4"    |
| 35  | X17091126   | LIMIT SWITCH                |
| 36  | X1709036    | LIMIT SWITCH PLATE          |
| 37  | XPB19       | HEX BOLT 1/4"-20 X 1/2"     |
| 38  | XPW06       | FLAT WASHER 1/4"            |
| 39  | XPSB07      | CAP SCREW 5/16"-18 X 3/4"   |
| 40  | X1709040    | COLLAR                      |
| 41  | X1709041    | PULLEY COVER                |
| 42  | XPS04       | PHLP HD SCR 1/4"-20 X 1/2"  |
| 43  | X1709043    | BRAKE HOUSING               |
| 44  | X1709044    | BRAKE FRONT GUARD           |
| 45  | X17091302-1 | BRAKE LINING                |
| 46  | X17091302-2 | BRAKE LINING                |
| 47  | X1709047    | BRAKE ARBOR                 |
| 48  | X1709048    | BRAKE SPRING                |
| 49  | X1709049    | BRAKE INSIDE PIECE          |
| 50  | XPFH12M     | FLAT HD SCR M6-1 X 25       |
| 51  | X1709051    | BRAKE PIN                   |
| 52  | XPSB10M     | CAP SCREW M5-0.8 X 15       |
| 53  | XPLW04      | LOCK WASHER 3/8"            |
| 54  | XPN08       | HEX NUT 3/8"-16             |
| 56  | X17091313   | BRAKE GASKET                |
| 57  | X1709057    | SPRING                      |
| 58  | XPS80       | PHLP HD SCR 3/16"-32 X 1/4" |



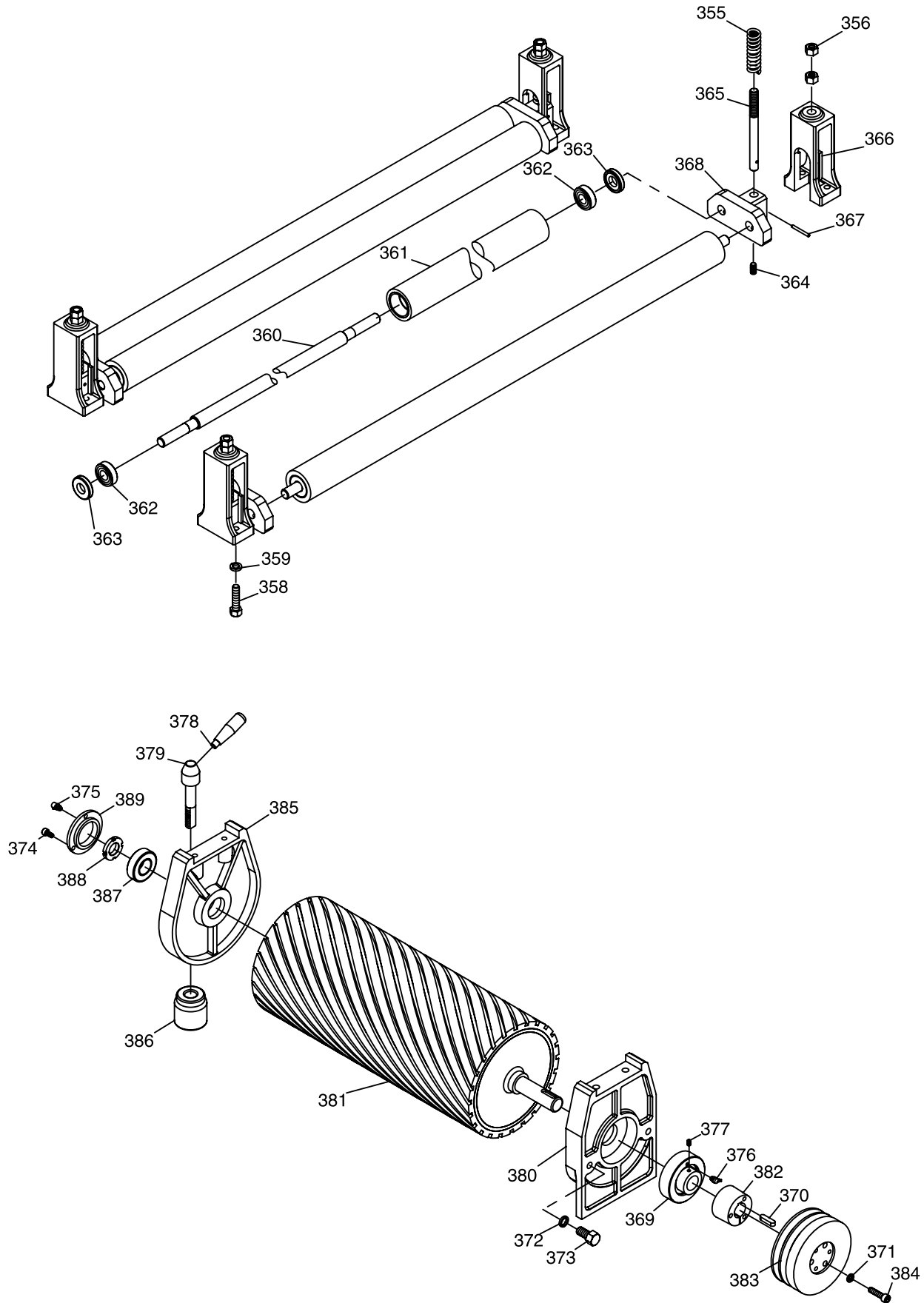
| REF | PART #   | DESCRIPTION                                     |
|-----|----------|---|
| 100 | X1709100 | ELEVATION SCREW                                 |
| 101 | XPB03    | HEX BOLT $\frac{5}{16}$ "-18 X 1"               |
| 102 | XPW07    | FLAT WASHER $\frac{5}{16}$ "                    |
| 103 | XPLW01   | LOCK WASHER $\frac{5}{16}$ "                    |
| 104 | XPLW04   | LOCK WASHER $\frac{3}{8}$ "                     |
| 105 | XPB18    | HEX BOLT $\frac{3}{8}$ "-16 X 1"                |
| 106 | X1709106 | ELEVATION BRACKET                               |
| 107 | X1709107 | DUST GUARD BELLOW                               |
| 108 | XPB07    | HEX BOLT $\frac{5}{16}$ "-18 X $\frac{3}{4}$ "  |
| 109 | XPLW01   | LOCK WASHER $\frac{5}{16}$ "                    |
| 110 | X1709110 | CHAIN   |
| 111 | X1709111 | NUT HOUSING                                     |
| 112 | X1709112 | COLLAR  |
| 113 | XP51107  | THRUST BEARING 51107                            |
| 114 | XPR12M   | EXT RETAINING RING 35MM                         |
| 115 | X1709115 | SPROCKET WHEEL                                  |
| 116 | X1709116 | ELEVATION GEAR BOX                              |
| 117 | X1709117 | WORM GEAR                                       |
| 118 | XP6005   | BALL BEARING 6005                               |
| 119 | X1709119 | BEARING CAP                                     |
| 120 | XPSB05   | CAP SCREW $\frac{1}{4}$ "-20 X $\frac{3}{4}$ "  |
| 121 | X1709121 | WORM SHAFT                                      |
| 122 | XP6002   | BALL BEARING 6002                               |
| 123 | X1709123 | BEARING CAP                                     |
| 124 | XPSB33   | CAP SCREW 10-24 X $\frac{3}{4}$ "               |
| 125 | X1709125 | BEARING CAP                                     |
| 126 | XPSB01   | CAP SCREW $\frac{1}{4}$ "-20 X $\frac{5}{8}$ "  |
| 127 | X1709127 | SPROCKET WHEEL                                  |
| 128 | XPSS08   | SET SCREW $\frac{5}{16}$ "-18 X $\frac{1}{2}$ " |
| 129 | X1709129 | PULLEY  |
| 130 | XPVA28   | V-BELT A-28                                     |
| 131 | X1709131 | PULLEY  |
| 132 | XPSS07   | SET SCREW $\frac{1}{4}$ "-20 X $\frac{1}{2}$ "  |
| 133 | XPLW01   | LOCK WASHER $\frac{5}{16}$ "                    |

| REF   | PART #      | DESCRIPTION   |
|-------|-------------|---|
| 134   | XPB32       | HEX BOLT $\frac{5}{16}$ "-18 X $\frac{5}{8}$ "            |
| 135   | XPSS07      | SET SCREW $\frac{1}{4}$ "-20 X $\frac{1}{2}$ "            |
| 136   | X1709136    | HAND WHEEL  |
| 137   | X1709137    | MOTOR BASE  |
| 138   | XPB44       | HEX BOLT $\frac{1}{2}$ "-20 X $\frac{3}{4}$ "             |
| 139   | XPLW02      | LOCK WASHER $\frac{1}{4}$ "                               |
| 140   | X1709140    | ADJUSTMENT ROD  |
| 141   | XPW01       | FLAT WASHER $\frac{1}{2}$ "                               |
| 142   | XPN06       | HEX NUT $\frac{1}{2}$ "-12                                |
| 143   | XPLW07      | LOCK WASHER $\frac{1}{2}$ "                               |
| 144   | X17092331   | MOTOR $\frac{1}{3}$ HP, 1 PH                              |
| 144-1 | X17092331-1 | FAN COVER   |
| 144-2 | X17092331-2 | FAN   |
| 144-3 | XPC150      | CAPACITOR (150MFD 250VAC)                                 |
| 145   | XPN05       | HEX NUT $\frac{1}{4}$ "-20                                |
| 146   | XPB73       | HEX BOLT $\frac{1}{2}$ "-13 X 4 $\frac{1}{2}$ "           |
| 147   | X1709147    | MOUNTING PLATE  |
| 148   | XPB19       | HEX BOLT $\frac{1}{4}$ "-20 X $\frac{1}{2}$ "             |
| 149   | X17092336   | PROXIMITY SWITCH  |
| 150   | XPS34       | PHLP HD SCR M3-0.5 X 25                                   |
| 151   | XPN07M      | HEX NUT M3-0.5  |
| 152   | XPK14       | KEY $\frac{5}{16}$ " X $\frac{5}{16}$ " X $\frac{3}{4}$ " |
| 153   | XPK48M      | KEY 4 X 4 X 20MM  |
| 154   | XPK48M      | KEY 4 X 4 X 20MM  |
| 155   | X1709155    | ADJUSTMENT PIECE  |
| 156   | X1709156    | SPROCKET SHAFT  |
| 157   | XP6003      | BALL BEARING 6003   |
| 158   | X1709158    | SPROCKET WHEEL  |
| 159   | X1709159    | ADJUSTMENT ROD  |
| 160   | XPW02       | FLAT WASHER $\frac{3}{8}$ "                               |
| 161   | XPN08       | HEX NUT $\frac{3}{8}$ "-16                                |
| 162   | XPN02       | HEX NUT $\frac{5}{16}$ "-18                               |
| 163   | XPLW01      | LOCK WASHER $\frac{5}{16}$ "                              |
| 164   | XPB07       | HEX BOLT $\frac{5}{16}$ "-18 X $\frac{3}{4}$ "            |



| REF   | PART #      | DESCRIPTION  |
|-------|-------------|--|
| 210   | X1709210    | CONVEYOR TABLE   |
| 211   | X17093102   | CONVEYOR BELT  |
| 212   | X1709212    | MOUNTING PLATE   |
| 213   | XPW15       | FLAT WASHER $\frac{9}{16}$ "                                 |
| 214   | XPLW08M     | LOCK WASHER 14MM   |
| 215   | X1709215    | HEX BOLT M14-2 X 30  |
| 216   | X1709216    | OUTFEED ROLLER   |
| 217   | X1710217    | BALL BEARING UCF205  |
| 218   | XPLW04      | LOCK WASHER $\frac{3}{8}$ "                                  |
| 219   | XPB18       | HEX BOLT $\frac{3}{8}$ "-16 X 1"                             |
| 220   | X1710217    | BALL BEARING UCF205  |
| 221   | XPLW04      | LOCK WASHER $\frac{3}{8}$ "                                  |
| 222   | XPB18       | HEX BOLT $\frac{3}{8}$ "-16 X 1"                             |
| 223   | X1709223    | BEARING CAP  |
| 224   | XPLW04      | LOCK WASHER $\frac{3}{8}$ "                                  |
| 225   | XPB24       | HEX BOLT $\frac{3}{8}$ "-16 X 1 $\frac{1}{4}$ "              |
| 226   | X1709226    | SPROCKET WHEEL   |
| 227   | XPB11       | KEY $\frac{5}{16}$ " X $\frac{5}{16}$ " X 1 $\frac{3}{16}$ " |
| 228   | XPSS08      | SET SCREW $\frac{5}{16}$ "-18 X 1 $\frac{1}{2}$ "            |
| 229   | X1709229    | CHAIN  |
| 230   | X17093123   | MOTOR $\frac{1}{2}$ HP, 1 PH                                 |
| 230-1 | X17093123-1 | FAN COVER  |
| 230-2 | X17093123-2 | FAN  |
| 230-3 | XPC040UF    | R CAPACITOR 40M 350V   |

| REF | PART #     | DESCRIPTION                                       |
|-----|------------|---|
| 231 | X1709231   | SPROCKET WHEEL                                    |
| 232 | XPSS08     | SET SCREW $\frac{5}{16}$ "-18 X 1 $\frac{1}{2}$ " |
| 233 | X1709233   | CHAIN GUARD                                       |
| 234 | X1709234   | SPCL PHLP HD SCR $\frac{5}{16}$ "-18 X 3"         |
| 235 | X17093131  | INFEED ROLLER BRACKET                             |
| 236 | XPSB16     | CAP SCREW $\frac{3}{8}$ "-16 X $\frac{3}{4}$ "    |
| 237 | X17093133  | INFEED ROLLER BRACKET                             |
| 238 | X1709238   | POSITIONING WHEEL                                 |
| 239 | XPSB70     | CAP SCREW $\frac{5}{16}$ "-18 X 2"                |
| 240 | XPLW01     | LOCK WASHER $\frac{5}{16}$ "                      |
| 241 | XPB02      | HEX NUT $\frac{5}{16}$ "-18                       |
| 242 | X1709242   | FRONT BRAKE COVER                                 |
| 243 | XPS19      | PHLP HD SCR $\frac{1}{4}$ "-20 X 1"               |
| 244 | X17093142  | LIMIT SWITCH                                      |
| 245 | XPS31      | PHLP HD SCR 10-24 X 1 $\frac{3}{4}$ "             |
| 246 | X1709246   | ADJ. HEX BOLT $\frac{1}{2}$ "-12 X 3"             |
| 247 | X1709247   | SHAFT   |
| 248 | X1709248   | INFEED ROLLER                                     |
| 249 | XP6205-2RS | BALL BEARING 6205-2RS                             |
| 250 | XPR11M     | EXT RETAINING RING 25MM                           |
| 251 | X1709251   | ELEVATION LIMITER                                 |
| 252 | XPSB32     | CAP SCREW $\frac{1}{4}$ "-20 X 1 $\frac{1}{4}$ "  |
| 253 | X1709253   | ELEVATION SLIDERAIL                               |
| 254 | XPSB30     | CAP SCREW $\frac{5}{16}$ "-18 X 1 $\frac{1}{2}$ " |





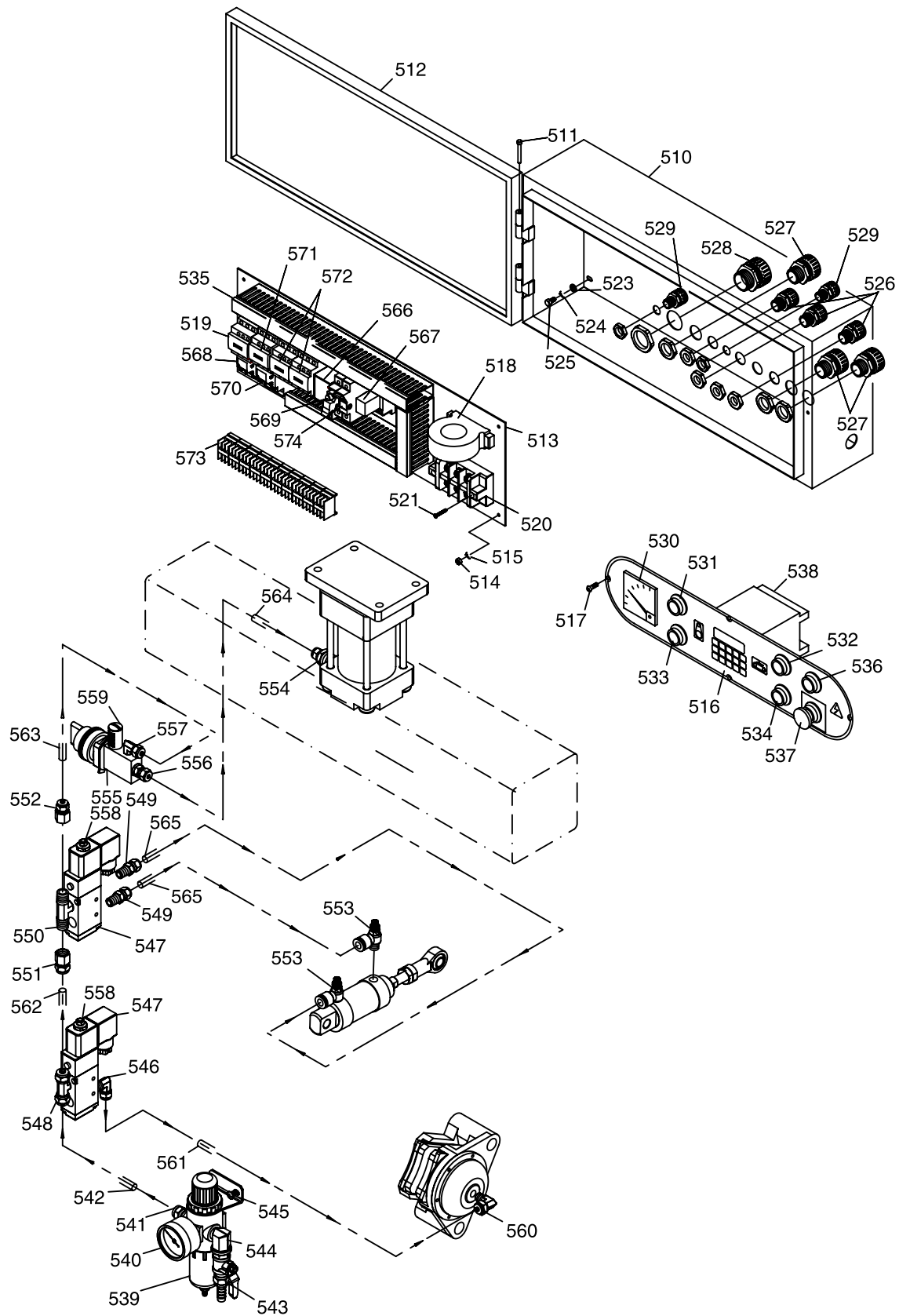
| REF | PART #    | DESCRIPTION   |
|-----|-----------|---|
| 355 | X1709355  | SPRING  |
| 356 | XPN08     | HEX NUT $\frac{3}{8}$ "-16                                  |
| 358 | XPB07     | HEX BOLT $\frac{5}{16}$ "-18 X $\frac{3}{4}$                |
| 359 | XPLW01    | LOCK WASHER $\frac{5}{16}$ "                                |
| 360 | X1709360  | PISTON ROLLER SHAFT   |
| 361 | X17094202 | PISTON ROLLER   |
| 362 | XP6001    | BALL BEARING 6001   |
| 363 | X1709363  | BEARING COLLER  |
| 364 | XPSS07    | SET SCREW $\frac{1}{4}$ "-20 X $\frac{1}{2}$ "              |
| 365 | X1709365  | PISTON ROLLER ADJ. ROD                                      |
| 366 | X1709366  | PISTON BRACKET  |
| 367 | XPRP55M   | ROLL PIN 3 X 27MM   |
| 368 | X1709368  | PISTON SLIDERAIL  |
| 369 | X1709369  | BEARING UCC206  |
| 370 | XPB11     | KEY $\frac{5}{16}$ " X $\frac{5}{16}$ " X $\frac{13}{16}$ " |
| 371 | XPLW01    | LOCK WASHER $\frac{5}{16}$ "                                |
| 372 | XPLW07    | LOCK WASHER $\frac{1}{2}$ "                                 |

| REF | PART #    | DESCRIPTION                                      |
|-----|-----------|--|
| 373 | XPB41     | HEX BOLT $\frac{1}{2}$ "-12 X $1\frac{1}{2}$ "   |
| 374 | XPSB04    | CAP SCREW $\frac{1}{4}$ "-20 X $\frac{1}{2}$ "   |
| 375 | X1709375  | GREASE FITTING $\frac{1}{4}$ "-28                |
| 376 | X1709376  | GREASE FITTING $\frac{1}{4}$ "-28 X 45°          |
| 377 | XPSB85M   | CAP SCREW M6-1 X 6                               |
| 378 | X17095205 | LOCK LEVER HANDLE                                |
| 379 | X17095206 | LOCK LEVER SHAFT                                 |
| 380 | X1709380  | BEARING HOUSING                                  |
| 381 | X1709381  | RUBBER ROLLER                                    |
| 382 | X1709382  | FASTENING TUBE                                   |
| 383 | X1709383  | PULLEY   |
| 384 | XPSB11    | CAP SCREW $\frac{5}{16}$ "-18 X $1\frac{1}{4}$ " |
| 385 | X1709385  | BEARING HOUSING                                  |
| 386 | X1709386  | BEARING BRACKET PAD                              |
| 387 | XP6205    | BALL BEARING 6205-2RS                            |
| 388 | X1709388  | SPANNER NUT                                      |
| 389 | X1709389  | BEARING CAP                                      |



| REF | PART #    | DESCRIPTION                 |
|-----|-----------|-----------------------------|
| 410 | X1709410  | SQUARE FRAME                |
| 411 | X1709411  | SQUARE FRAME SEAL (LEFT)    |
| 412 | XPFH03    | FLAT HD SCR 1/4"-20 X 1/2"  |
| 413 | XPLW04    | LOCK WASHER 3/8"            |
| 414 | XPB18     | HEX BOLT 3/8"-16 X 1"       |
| 415 | XPLW07    | LOCK WASHER 1/2"            |
| 416 | XPB53     | HEX BOLT 1/2"-12 X 1"       |
| 417 | XPLW01    | LOCK WASHER 5/16"           |
| 418 | XPSB07    | CAP SCREW 5/16"-18 X 3/4"   |
| 419 | XPB09M    | HEX BOLT M8-1.25 X 20       |
| 420 | X1709420  | AIR CYLINDER                |
| 421 | X17096115 | LIMIT SWITCH                |
| 422 | X17096116 | LIMIT SWITCH TUBE           |
| 423 | X1709423  | LIMIT SWITCH HOLDER         |
| 424 | X17096118 | SENSOR (PHOTO-ELECTRIC EYE) |
| 426 | X1709426  | SENSOR PLATE                |
| 427 | X17096120 | SENSOR REFLECTOR            |
| 428 | XPW07     | FLAT WASHER 5/16"           |
| 429 | XPB09     | HEX BOLT 5/16"-18 X 1/2"    |
| 430 | X1709430  | COVER                       |
| 431 | XPLW02    | LOCK WASHER 1/4"            |
| 432 | XPB07     | HEX BOLT 5/16"-18 X 3/4"    |
| 433 | XPS07M    | PHLP HD SCR M4-0.7 X 8      |
| 434 | X1709434  | UPPER ROLLER BRACKET        |
| 435 | X1709435  | UPPER ROLLER                |
| 437 | X1709437  | BEARING ASSY. UCECH6206     |
| 438 | XPSS02M   | SET SCREW M6-1 X 6          |
| 439 | X1709439  | PLUG                        |
| 440 | X1709440  | SPLIT RING                  |
| 441 | X1709441  | GREASE FITTING 1/4"-28      |
| 443 | X17096210 | AIR CYLINDER                |

| REF | PART #    | DESCRIPTION                |
|-----|-----------|----------------------------|
| 444 | X17096211 | CLEVIS W/BEARING           |
| 445 | XPN08     | HEX NUT 3/8"-16            |
| 446 | XPSB16    | CAP SCREW 3/8"-16 X 3/4"   |
| 447 | X1709447  | UPPER FRAME COVER          |
| 448 | X1709448  | DUST PORT 4"               |
| 449 | XPS14M    | PHLP HD SCR M6-1 X 12      |
| 450 | X1709450  | LEFT DOOR, UPPER FRAME     |
| 451 | X1709451  | RIGHT DOOR, UPPER FRAME    |
| 452 | X1709452  | DOOR LOCK                  |
| 453 | XPB86     | HEX BOLT 5/16"-18 X 3/4"   |
| 454 | XPW07     | FLAT WASHER 5/16"          |
| 455 | X1709455  | RIGHT DOOR, LOWER FRAME    |
| 456 | X1709456  | LEFT DOOR, LOWER FRAME     |
| 457 | XPS04     | PHLP HD SCR 1/4"-20 X 1/2" |
| 458 | X1709458  | PLATE                      |
| 459 | X1709459  | HINGE                      |
| 460 | X1709460  | MOUNTING PLATE             |
| 461 | XPLW02    | LOCK WASHER 1/4"           |
| 462 | XPB19     | HEX BOLT 1/4"-20 X 1/2"    |
| 463 | XPB02M    | HEX BOLT M6-1 X 12         |
| 464 | X1709464  | MOTOR COVER                |
| 465 | XPSB04    | CAP SCREW 1/4"-20 X 1/2"   |
| 466 | X1709466  | LABEL, SAFETY GLASSES      |
| 467 | X1709467  | LABEL, READ MANUAL         |
| 468 | X1709468  | LABEL, DUST MASK           |
| 469 | X1709469  | LABEL, UNPLUG POWER        |
| 470 | X1709470  | LABEL, MACHINE DATA        |
| 471 | X1709471  | LABEL, GENERAL WARNINGS    |
| 472 | X1709472  | LABEL, OPERATION WARNING   |
| 473 | X1709473  | LABEL, HAND WARNING        |
| 474 | X1709474  | LABEL, CONVERSION TABLE    |



| REF | PART #      | DESCRIPTION                   |
|-----|-------------|-------------------------------|
| 510 | X1709510    | ELECTRICAL CONTROL BOX        |
| 511 | X1709511    | HINGE                         |
| 512 | X1709512    | CONTROL BOX                   |
| 513 | X1709513    | BASE PLATE                    |
| 514 | XPN05       | HEX NUT 1/4"-20               |
| 515 | XPLW02      | LOCK WASHER 1/4"              |
| 516 | X17098107   | CONTROL PANEL                 |
| 517 | XPS07M      | PHLP HD SCR M4-0.7 X 8        |
| 518 | X17098109   | PROPORTIONAL CURRENT DEVICE   |
| 519 | X17098111   | MAG. CONTACT (LRD-3357)       |
| 520 | X1709520    | POWER WIRE TERMINAL           |
| 521 | XPS51M      | PHLP HD SCR M4-0.7 X 30       |
| 522 | X1709522    | TERMINAL PLATE                |
| 523 | XPW06       | FLAT WASHER 1/4"              |
| 524 | XPLW02      | LOCK WASHER 1/4"              |
| 525 | XPB19       | HEX BOLT 1/4"-20 X 1/2"       |
| 526 | X1709526    | PU CONNECTOR 1/2"             |
| 527 | X1709527    | PU CONNECTOR 3/4"             |
| 528 | X1709528    | CABLE CONNECTOR 1"            |
| 529 | X1709529    | PU CONNECTOR 3/8"             |
| 530 | X17098126   | AMP METER                     |
| 531 | X17098128-1 | START SWITCH                  |
| 532 | X17098128-2 | START SWITCH                  |
| 533 | X17098129-1 | STOP SWITCH                   |
| 534 | X17098129-2 | STOP SWITCH                   |
| 535 | X1709535    | WIRE COLUMN                   |
| 536 | X17098130   | POWER INDICATION LIGHT        |
| 537 | X17098131   | EMERGENCY STOP SWITCH         |
| 538 | X17098133   | COMPUTER                      |
| 539 | X1709539    | FILTER CUP 1/4"               |
| 540 | X1709540    | PRESSURE REGULATOR 1/4"       |
| 541 | X1709541    | BRONZE CONNECTOR 1/4T X 5/16N |
| 542 | X1709542    | FLEXIBLE HOSE 8MM             |

| REF | PART #      | DESCRIPTION                    |
|-----|-------------|--------------------------------|
| 543 | X1709542    | AIR VALVE 1/4"                 |
| 544 | X1709544    | ELBOW 1/4T X 5/16N             |
| 545 | XPS22       | PHLP HD SCR 10-24 X 5/8"       |
| 546 | X1709546    | ELBOW 1/4 X 1/8 T              |
| 547 | X1709547    | SOLENOID VALVE                 |
| 548 | X1709548    | T-JOINT 5/16N X 1/8T X 5/16N   |
| 549 | X1709549    | PLASTIC CONNECTOR 1/4N X 1/4T  |
| 550 | X1709550    | T-JOINT 1/4T X 1/4T X 1/4T     |
| 551 | X1709551    | PLASTIC CONNECTOR 5/16N X 1/4T |
| 552 | X1709552    | PLASTIC CONNECTOR 1/4N X 1/4T  |
| 553 | X1709553    | THROTTLE VALVE 1/8"            |
| 554 | X1709554    | PLASTIC CONNECTOR 1/4N X 3/8T  |
| 555 | X1709555    | AIR SWITCH 1/8"                |
| 556 | X1709556    | PLASTIC CONNECTOR 1/4N X 1/8T  |
| 557 | X1709557    | PLASTIC CONNECTOR 1/4N X 1/8T  |
| 558 | X1709558    | BUFFER 1/8"                    |
| 559 | X1709559    | SILENCER 1/8"                  |
| 560 | X1709560    | PLASTIC CONNECTOR 5/16N X 1/8T |
| 561 | X1709561    | FLEXIBLE HOSE 8MM              |
| 562 | X1709562    | FLEXIBLE HOSE 8MM              |
| 563 | X1709563    | FLEXIBLE HOSE 6MM              |
| 564 | X1709564    | FLEXIBLE HOSE 6MM              |
| 565 | X1709565    | FLEXIBLE HOSE 6MM              |
| 566 | X17098135   | CONTROLLER UNIT                |
| 567 | X17098136   | RELAY                          |
| 568 | X17108112   | OVERLOAD RELAY(LR3-D33)        |
| 569 | X17098113   | FUSE 4-AMP                     |
| 570 | X17098114   | OVERLOAD RELAY (LR3D-086)      |
| 571 | X17098115   | MAG. CONTACT (LC1-096)         |
| 572 | X17098115-1 | MAG. CONTACT (LC1-096 (W/LOCK) |
| 573 | X170908118  | TERMANAL PLATE                 |
| 574 | X17108113-1 | FUSE HOUSING                   |

## Accessories

The following sander accessories may be available through your local Woodstock International Inc. Dealer. If you do not have a dealer in your area, these products are also available through online dealers. Please call or e-mail Woodstock International Inc. Customer Service to get a current listing of dealers at: 1-800 840-8420 or at [sales@woodstockint.com](mailto:sales@woodstockint.com).

**The SHOP FOX® Heavy-Duty Roller Stands and Roller Tables** make your sander safer and easier to use. All models feature convenient hand knobs for fast height adjustment and offer rigid steel construction. These stands are invaluable for supporting extra long workpieces on sanders. Go to <http://www.shopfox.biz/rollerstand.cfm> to view all of the available roller tables and stands.



**The D2271 SHOP FOX® Heavy-Duty Roller Table** is a versatile roller table wherever you need extra workpiece support for up to 1,000 lb. capacity. It features all-steel welded construction and measures 19" x 65" long. The roller table also comes with 9 ball bearing rollers with four independently adjustable legs for any leveling requirement. The roller table is also adjustable in height from 26<sup>3</sup>/<sub>8</sub>" to 44<sup>1</sup>/<sub>8</sub>".



**The W1100 SLICKPLANE® with Radius Blade** produces an exceptionally smooth 1/16" radius or a 45° chamfer over the entire length of an edge after your workpiece. Crafted from rock maple, The **SLICKPLANE®** is designed to fit comfortably in your hand. A brass sole glides easily along the workpiece edge as two independently adjustable carbide-tipped cutters apply the finishing touch.

**W1101 1 Pr. Carbide-Tipped Radius Blades**

**W1102 1 Pr. Carbide-Tipped Chamfer Blades**



**The D2258 Shop Flash™** is perfect for workshops with loud machinery running or when you must wear hearing protection. The shop flash built-in audible sound or flashing light or both alerts you when your shop phone rings. The Shop Flash™ requires no batteries and includes AC/DC adapter and microphone with 14' cord that easily attaches to your telephone.



**The D3003 15" x 20" Cleaning Pad** for Wide-Belt Sanders.

The perfect accessory for wide-belt sanders, just set your table and feed this cleaning pad through for longer lasting abrasive belts. Pad measures 15" x 20" x 1<sup>1</sup>/<sub>8</sub>" high.





# WARRANTY CARD

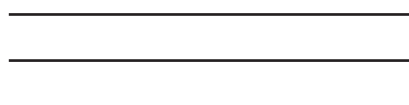
Name \_\_\_\_\_  
Street \_\_\_\_\_  
City \_\_\_\_\_ State \_\_\_\_\_ Zip \_\_\_\_\_  
Phone Number \_\_\_\_\_ E-Mail \_\_\_\_\_ FAX \_\_\_\_\_  
MODEL# \_\_\_\_\_ SERIAL# \_\_\_\_\_ PURCHASE DATE \_\_\_\_\_

The following information is given on a voluntary basis and is strictly confidential.

1. Where did you purchase your **SHOP FOX®** machine?  
Store? \_\_\_\_\_ City? \_\_\_\_\_
2. How did you first learn about us?  
\_\_\_\_Advertisement \_\_\_\_\_Friend  
\_\_\_\_Mail order Catalog \_\_\_\_\_Local Store  
\_\_\_\_World Wide Web Site  
\_\_\_\_Other \_\_\_\_\_
3. Which of the following magazines do you subscribe to.  
\_\_\_\_American Woodworker \_\_\_\_\_Today's Homeowner  
\_\_\_\_Cabinetmaker \_\_\_\_\_WOOD  
\_\_\_\_Family Handyman \_\_\_\_\_Wooden Boat  
\_\_\_\_Fine Homebuilding \_\_\_\_\_Woodshop News  
\_\_\_\_Fine Woodworking \_\_\_\_\_Woodsmith  
\_\_\_\_Home Handyman \_\_\_\_\_Woodwork  
\_\_\_\_Journal of Light Construction \_\_\_\_\_Woodworker  
\_\_\_\_Old House Journal \_\_\_\_\_Woodworker's Journal  
\_\_\_\_Popular Mechanics \_\_\_\_\_Workbench  
\_\_\_\_Popular Science \_\_\_\_\_American How-To  
\_\_\_\_Popular Woodworking  
\_\_\_\_Other \_\_\_\_\_
4. Which of the following woodworking/remodeling shows do you watch?  
\_\_\_\_Backyard America \_\_\_\_\_The New Yankee Workshop  
\_\_\_\_Home Time \_\_\_\_\_This Old House  
\_\_\_\_The American Woodworker \_\_\_\_\_Woodwright's Shop  
\_\_\_\_Other \_\_\_\_\_
5. What is your annual household income?  
\_\_\_\_\$20,000-\$29,999 \_\_\_\_\_\$60,000-\$69,999  
\_\_\_\_\$30,000-\$39,999 \_\_\_\_\_\$70,000-\$79,999  
\_\_\_\_\$40,000-\$49,999 \_\_\_\_\_\$80,000-\$89,999  
\_\_\_\_\$50,000-\$59,999 \_\_\_\_\_\$90,000 +
6. What is your age group?  
\_\_\_\_20-29 \_\_\_\_\_50-59  
\_\_\_\_30-39 \_\_\_\_\_60-69  
\_\_\_\_40-49 \_\_\_\_\_70 +
7. How long have you been a woodworker?  
\_\_\_\_0 - 2 Years \_\_\_\_\_8 - 20 Years  
\_\_\_\_2 - 8 Years \_\_\_\_\_20+ Years
8. How would you rank your woodworking skills?  
\_\_\_\_Simple \_\_\_\_\_Advanced  
\_\_\_\_Intermediate \_\_\_\_\_Master Craftsman
9. How many **SHOP FOX®** machines do you own? \_\_\_\_\_
10. What stationary woodworking tools do you own? Check all that apply.  
\_\_\_\_Air Compressor \_\_\_\_\_Panel Saw  
\_\_\_\_Band Saw \_\_\_\_\_Planer  
\_\_\_\_Drill Press \_\_\_\_\_Power Feeder  
\_\_\_\_Drum Sander \_\_\_\_\_Radial Arm Saw  
\_\_\_\_Dust Collector \_\_\_\_\_Shaper  
\_\_\_\_Horizontal Boring Machine \_\_\_\_\_Spindle Sander  
\_\_\_\_Jointer \_\_\_\_\_Table Saw  
\_\_\_\_Lathe \_\_\_\_\_Vacuum Veneer Press  
\_\_\_\_Mortiser \_\_\_\_\_Wide Belt Sander  
\_\_\_\_Other \_\_\_\_\_
11. Which benchtop tools do you own? Check all that apply.  
\_\_\_\_1" x 42" Belt Sander \_\_\_\_\_6" - 8" Grinder  
\_\_\_\_5" - 8" Drill Press \_\_\_\_\_Mini Lathe  
\_\_\_\_8" Table Saw \_\_\_\_\_10" - 12" Thickness Planer  
\_\_\_\_8" - 10" Bandsaw \_\_\_\_\_Scroll Saw  
\_\_\_\_Disc/Belt Sander \_\_\_\_\_Spindle/Belt Sander  
\_\_\_\_Mini Jointer  
\_\_\_\_Other \_\_\_\_\_
12. Which portable/hand held power tools do you own? Check all that apply.  
\_\_\_\_Belt Sander \_\_\_\_\_Orbital Sander  
\_\_\_\_Biscuit Joiner \_\_\_\_\_Palm Sander  
\_\_\_\_Circular Saw \_\_\_\_\_Portable Planer  
\_\_\_\_Detail Sander \_\_\_\_\_Saber Saw  
\_\_\_\_Drill/Driver \_\_\_\_\_Reciprocating Saw  
\_\_\_\_Miter Saw \_\_\_\_\_Router  
\_\_\_\_Other \_\_\_\_\_
13. What machines/supplies would you like to see?  
\_\_\_\_12" Table Saw \_\_\_\_\_Radial Arm Saw  
\_\_\_\_12" Jointer \_\_\_\_\_Panel Saw  
\_\_\_\_Combination Planer/Jointer \_\_\_\_\_Brass Hardware  
\_\_\_\_Paint & Finish Supplies \_\_\_\_\_Lumber  
\_\_\_\_Contractor's Supplies  
\_\_\_\_other \_\_\_\_\_
14. What new accessories would you like Woodstock International to carry?  
\_\_\_\_\_  
\_\_\_\_\_
15. Do you think your purchase represents good value?  
\_\_\_\_Yes \_\_\_\_\_No
16. Would you recommend **SHOP FOX®** products to a friend?  
\_\_\_\_Yes \_\_\_\_\_No
17. Comments: \_\_\_\_\_  
\_\_\_\_\_  
\_\_\_\_\_  
\_\_\_\_\_

CUT ALONG DOTTED LINE

FOLD ALONG DOTTED LINE



Place  
Stamp  
Here



WOODSTOCK INTERNATIONAL, INC.  
P.O. BOX 2309  
BELLINGHAM, WA 98227-2309



FOLD ALONG DOTTED LINE

TAPE ALONG EDGES--PLEASE DO NOT STAPLE



